

1 October 2007

Ohana Military Communities, LLC
5173 Nimitz Road
Honolulu, HI 96819

Re: Phase I Environmental Site Assessment Update
Nani Ulupau Marine Corps Family Housing Property

To Ohana Military Communities, LLC:

We have conducted a Phase I Environmental Site Assessment Update ("Update") in accordance with the American Society of Testing and Materials' ("ASTM") Standard Practice E 1527-05 for the Nani Ulupau Marine Corps Family Housing Area (the "Site"). As part of this Update, we have, among other things, conducted visual inspections of the Site and adjoining properties, interviewed a knowledgeable representative of Ohana Military Communities, LLC and appropriate regulatory agency officials, obtained an updated electronic environmental reports database search report, and reviewed an updated environmental lien search commissioned by Ohana Military Communities, LLC. In addition, Ohana Military Communities, LLC, as User, has provided us with the information required by Section 6 of the ASTM Standard Practice E 1527-05 where applicable. Interviews of housing occupants were not conducted in accordance with Section 10.5.2.1. The following summarizes these activities:

- ◆ Visual inspections of the Site were conducted on 13 July 2007. Changes to the Site or the housing units were not observed. Renovation of existing housing units has not taken place. There were no changes to adjoining properties as observed during the visual inspections.
- ◆ The environmental database search reported no additional sites to those identified in the previous database search report within the ASTM Standard Practice E 1527-05 minimum search distances.
- ◆ (b) (6) of Ohana Military Communities, LLC was interviewed on 13 July 2007 regarding ongoing activities at the Site. According to (b) (6), there are no environmentally-related activities ongoing at the Site.
- ◆ A new chain of title for the Site, dated 1 August 2007, and commissioned by Ohana Military Communities, LLC was reviewed. There were no environmental liens found in the chain of title for the Site.
- ◆ The Hawaii Department of Health Office of Hazard Evaluation and Emergency Response ("HEER") was contacted on August 6, 2007 for information regarding ongoing investigations/compliance actions related to the Site. (b) (6) of the HEER directed Parsons to contact the Marine Corps' Installation Restoration Program Manager, (b) (6). (b) (6) was contacted on August 13, 2007 and he indicated that there are no ongoing investigations/compliance actions at the Site.

Based upon the information obtained from the above mentioned activities and our review of the previous Phase I ESA, dated September 2006, we have concluded that the condition of the Nani Ulupau Marine Corps Family Housing Property has not changed since our previous Phase I ESA. We have not identified any new RECs on the Nani Ulupau Marine Corps Family Housing Property.

Soil testing in the September 2006 Phase I ESA has not been performed. The Site is slated for renovation only and soil will not be disturbed. If the plan to renovate the housing units changes or if soil in the Nani Ulupau Family Housing Area is otherwise disturbed, Ohana Military Communities, LLC, should follow the Pesticide Soil Management Plan



All other aspects of our prior Phase I ESA for the Site, dated September 2006, were reviewed by Parsons, remain valid and in effect, and are hereby restated. A copy of that report is attached hereto and is hereby incorporated by reference.

In conclusion, we have performed a Phase I Environmental Site Assessment Update in conformance with the scope and limitations of ASTM Practice E 1527 of the Nani Ulupau Marine Corps Family Housing Property. This assessment has revealed no evidence of additional RECs in connection with the property.

This report was prepared for Ohana Military Communities, LLC, its Managing Member and other Members of Ohana Military Communities, LLC. It may be relied upon by Ohana Military Communities, LLC, its Managing Member and other Members of Ohana Military Communities, LLC, the United States of America, Department of the Navy, (b) (4)

, and each of their respective officers, directors, employees, affiliates, successors, assigns, legal counsel and advisors. The information and conclusions presented in this report are valid only for the circumstances of the Site as described as of the dates in this report.

Sincerely,

(b) (6)

PARSONS

Attachments:

Environmental Professional Statement and Signature

Final Phase I Environmental Site Assessment – Nani Ulupau Marine Corps Family Housing, September 2006

Database Search

ENVIRONMENTAL PROFESSIONAL STATEMENT AND SIGNATURE

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of Title 40, Code of Federal Regulations (CFR), Part 312 dated 1 November 2005.

I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the Nani Ulupau Marine Corps Family Housing Property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

(b) (6)

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1 October 2007

(b) (6)

A small black rectangular redaction box covers the first part of the name.

, P.E.

FINAL PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

NANI ULUPAU MARINE FAMILY HOUSING AREA

Prepared for



Honolulu, Hawaii

September 2006

Prepared by

PARSONS

1132 BISHOP STREET, SUITE 2102 • HONOLULU • HAWAII 96813
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ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-containing material
AIRS	Aerometric Information Retrieval System
AST	Aboveground Storage Tank
ASTM	American Society of Testing and Materials
AUL	Activity and Use Limitation
BA	Bachelor of Art
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
COR	Corrective Action Report
EP	Environmental Professional
ERNS	Emergency Response Notification System
°F	Degrees Fahrenheit
FAA	Federal Aviation Administration
FCC	Federal Communication Commission
FINDS	Facility Index System
FOS	Finding of Suitability
FRS	Federal Registry System
FTTS	FIFRA/TSCA Tracking System
GEN	Generator
HDOH	Hawaii Department of Health
HMIRS	Hazardous Materials Incident Response System
HUD	United States Department of Housing and Urban Development
kg	Kilograms
km	Kilometer
LBP	Lead-based paint
lbs	Pounds
LQG	Large Quantity Generator
LUST	Leaking underground storage tank
m	Meter
MS	Master of Science
µg/ft ²	Micrograms per Square Foot
NCDB	National Compliance Data Base System
NESHAP	National Emission Standard for Hazardous Air Pollutants

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
NANI ULUPAU MARINE FAMILY HOUSING AREA
Kaneohe Area of O'ahu, Hawaii**

NFRAP	No Further Remedial Action Planned
NLR	No Longer Report
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NWI	National Wetlands Inventory
PCB	Polychlorinated biphenyl
pCi/L	picoCuries per liter
PE	Professional Engineer
ppm	parts per million
RADINFO	Nuclear Regulatory Commission Database of Permitted Nuclear Facilities
REC	Recognized Environmental Condition
RCRA	Resource Conservation and Recovery Act
SQG	Small Quantity Generator
SSTS	Section Seven Tracking System
TCLP	Toxic Characteristic Leaching Procedure
TIGER	Topologically Integrated Geographic Encoding and Referencing System
TIS	Track Info Services, LLC
TRIS	Toxic Release Inventory System
TSCA	Toxic Substances Control Act
TSD	Treatment, Storage, and/or Disposal
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground storage tank
WRCC	Western Regional Climate Center Web Page (http://www.wrcc.dri.edu/)

1.0 SUMMARY

Parsons conducted a Phase I Environmental Site Assessment in conformance with the American Society of Testing and Materials ("ASTM") Standard Practice E 1527-05 for the following site:

- The Nani Ulupau Marine Family Housing Area, located in the Kaneohe Area of O'ahu, Hawaii

The site is 8.552 acres. Exhibit 1, Site Map, presents the general location of the site. A complete legal description and detailed view of the site is presented on Exhibit 2, Site Survey Map.

The site is located in southeastern O'ahu, on Marine Corps Base (MCB) Kaneohe, on the Mokapu peninsula adjacent to Kaneohe Bay. The site consists of 18 multi-unit, two-story buildings that include 40 two- and three-bedroom housing units. The site consists of duplexes, tri-plexes, 4-plexes, and 6-plexes. The units were built in 1992. The square footage of the units ranges from 996 to 1,850 square feet. The units have 2 to 3 bedrooms with 1 to 2.5 bathrooms. No units have been renovated to date. There are no historic homes (Ohana, 2006). There is no open access to the site; it is located within MCB Kaneohe, a secured base. At the direction of the Marines, no housing units were available for inspection.

Ohana Military Communities, LLC, will be the lessee of the site and will be the owner of 40 housing units, of which 40 will be renovated.

The exterior of the housing units appear to be of wood or cinderblock construction covered with vinyl siding. Roofing material includes a wood base covered with asphalt shingles. Attached carports of the same construction are provided.

Available information for the site and surroundings was collected and evaluated to identify Recognized Environmental Conditions. According to the American Society for Testing and Materials (ASTM) Standard Practice E 1527-05, the term Recognized Environmental Conditions (RECs) means "the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."

Based on the definition of a REC in the ASTM Standard Practice E 1527-05, the following RECs have been identified for the site:

- Although no ACMs were observed during the site reconnaissance or identified in the asbestos management plan, housing units at the site are likely to be of drywall construction with potential for ACM in the drywall joint compound. Drywall joint compound is not a material sampled as part the asbestos assessment completed for the site. Therefore, it is recommended that available construction specifications and/or building records for the site be reviewed to determine if construction materials are ACM-free. If ACM materials are confirmed, it is recommended that the presence of ACM be disclosed to prospective tenants. It is also recommended if demolition occurs, the ACM Management Plan be followed.
- The Environmental Baseline Survey reports that according to housing management, pesticides/herbicides have been legally applied to the interior and exterior of the homes at MCBH Kaneohe Bay to control vegetative growth and infestation. Although the Nani Ulupau neighborhood was constructed in the 1990s, well after the ban of chlordane, DDT and other pesticides, application of banned pesticides, for vector control, may have occurred prior to the construction of the Nani Ulupau neighborhood.

A Phase I Environmental Site Assessment does not include any sampling and analysis of potentially contaminated materials. The scope of work of this Phase I Environmental Site Assessment did not specifically include sampling and analysis, therefore no independent soil or groundwater or other sampling and analyses were conducted.

2.0 INTRODUCTION

2.1 PURPOSE

Parsons conducted a Phase I Environmental Site Assessment in conformance with the American Society of Testing and Materials ("ASTM") Standard Practice E 1527-05 for the purpose of identifying RECs at the following site:

- The Nani Ulupau Marine Family Housing Area, located in the Kaneohe Area of O'ahu, Hawaii

The site is 8.552 acres. A complete legal description and detailed view of the site is presented on Exhibit 2, Site Survey Map.

Exhibit 3 provides the approximate location of the site on a United States Geological Survey (USGS) topographic map.

The term REC, as defined in ASTM Standard Practice E 1527-05, means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with applicable laws. The term is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

2.2 PHASE I TASKS

Parsons performed the following tasks:

2.2.1 Records review

Available current and historical documents pertinent to environmental activities conducted in or near the site were reviewed. Topics of interest include chemical usage or inventories, waste management records, Resource Conservation and Recovery Act (RCRA) or Comprehensive Environmental Response Compensation and Liability Act (CERCLA) activities.

2.2.2 Site reconnaissance and Interviews

Site reconnaissance of the site to visually and physically observe and document conditions on the property was performed. No housing units were available for interior

inspection. Interviews were conducted in keeping with the requirements of ASTM Standard Practice E 1527-05 § 7.1-7.2.

2.2.3 File search and records review

A search of federal, state, and local regulatory agency electronic databases was performed. This database search identifies locations that are regulated under various environmental laws, notably CERCLA, RCRA, and Toxic Substances Control Act (TSCA). It also identifies locations where a release of hazardous substances has occurred or is suspected.

2.2.4 Historical records review

A historic information review was conducted to identify all obvious uses from the present back to the first developed use or 1940, whichever is earlier. Available historical aerial photographs were reviewed, and any locations of activities that may pose an environmental concern to the site were identified.

2.2.5 Evaluate data and prepare report

Significant findings from the above-stated tasks were summarized, RECs were identified, and recommendations were made for additional site assessment activities, if needed.

2.3 SPECIAL TERMS AND CONDITIONS

- The information and conclusions presented in this report are valid only for the circumstances of the site investigated as described in this report, as of the dates in this report.
- Parsons evaluated the reasonableness and completeness of available relevant information, but does not assume responsibility for the truth or accuracy of any information provided to Parsons by others or for the lack of information that is intentionally, unintentionally, or negligently withheld from Parsons by others.
- After acceptance of this report, if Parsons obtains information that it believes warrants further exploration and development, Parsons will endeavor to provide that information, but Parsons will not be liable for not doing so.

2.4 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

To achieve the study objectives stated in this report, Parsons based its conclusions on the best information available during the period of the investigation and within the limits prescribed by the ASTM Standard.

No investigative method can completely eliminate the possibility of obtaining partially imprecise or incomplete information. Professional judgment was exercised in gathering and evaluating the information obtained, and Parsons commits itself to the usual care, thoroughness, and competence of the engineering profession.

2.5 LIMITING CONDITIONS AND METHODOLOGY USED

The Phase I Environmental Site Assessment investigations were completed in accordance with the ASTM Standard Practice E 1527-05.

2.6 USER RELIANCE

This report was prepared for Ohana Military Communities, LLC, its Managing Member and other Members of Ohana Military Communities, LLC. It may be relied upon by Ohana Military Communities, LLC, its Managing Member and other Members of Ohana Military Communities, LLC, the United States of America, Department of the Navy, (b) (4)

and each of their respective officers, directors, employees, affiliates, successors, assigns, legal counsel and advisors.

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3.0 SITE DESCRIPTION

3.1 LOCATION AND LEGAL DESCRIPTION OF PROPERTY

The Nani Ulupau Marine Family Housing Area is located at Latitude (North) 21.456305, Longitude (West) 157.739975. The site is located in southeastern O'ahu, on MCB Kaneohe, on the Mokapu peninsula adjacent to Kaneohe Bay. Exhibit 2 provides a legal description of the property and a site survey map.

Ohana Military Communities, LLC, will be the lessee of the site and will be the owner of 40 housing units, of which 40 will be renovated.

3.2 SITE AND VICINITY CHARACTERISTICS

Table 3-1 provides a description of the properties directly adjacent to the site.

**Table 3-1
Adjacent Properties**

Direction	Description of Adjacent Properties
North	Immediately adjacent to the site to the north is paved road and then the shoreline to Kaneohe Bay.
East	Immediately adjacent to the east of the site, the land is undeveloped. Further to the east-northeast is the Ulupau residential housing community.
South	Immediately adjacent to the south and southeast of the site is additional residential housing.
West	Immediately adjacent to the site to the west is additional residential housing.

3.3 DESCRIPTIONS OF STRUCTURES, ROADS, OTHER IMPROVEMENTS ON THE SITE

The site consists of duplexes, tri-plexes, 4-plexes, and 6-plexes. The units were built in 1992. The square footage of the units ranges from 996 to 1,850 square feet. The units have 2 to 3 bedrooms with 1 to 2.5 bathrooms. No units have been renovated to date. There are no historic homes (Ohana, 2006).

The site consists of 18 multi-unit buildings that include 40 two and three-bedroom units proposed for renovation. Housing units are occupied by Marine personnel and family. There is no open access to the site; it is located within MCB Kaneohe, a secured base. At the direction of the Marines, no housing units were available for inspection.

The exterior of the housing units appear to be of wood or cinderblock construction covered with vinyl siding. Roofing material includes a wood base covered with asphalt shingles. Attached carports of the same construction are provided for residential parking.

3.4 INFORMATION REPORTED BY USER REGARDING ENVIRONMENTAL LIENS OR SPECIALIZED KNOWLEDGE OR EXPERIENCE

3.4.1 Title Records

The site is currently owned by the Federal government and managed by the Department of Defense. Declarations of taking by the United States government for military use were made through July 2, 1918 to December 3, 1936.

3.4.2 Environmental Liens

A chain of title was obtained for the site. No information regarding environmental liens was found against the site.

3.4.3 Specialized Knowledge or Experience

Other than the information provided by the Department of the Navy contained herein, no specialized knowledge or experience was reported or discovered for the site.

3.4.4 Commonly Known or Reasonably Ascertainable Information

Other than the information provided by the Department of the Navy contained herein, no information was reported concerning commonly known or reasonably ascertainable information.

3.4.5 Valuation Reduction for Environmental Issues

No information was reported by Ohana Military Communities, LLC concerning valuation reduction for environmental issues.

3.4.6 Owner, Property Manager, and Occupant Information

Other than the information provided by the Department of the Navy contained herein, no information was reported concerning the owner, property manager, and occupants.

3.4.7 Reason for Performing Phase I

Ohana Military Communities is entering into a real estate transaction with the United States Navy. This Phase I is performed to allow Ohana Military Communities, consistent

with good commercial and customary practice, to satisfy the all appropriate inquiry into the previous ownership and use of the property.

3.4.8 Other

No information was reported by Ohana Military Communities, LLC concerning other issues.

3.5 CURRENT USES OF THE PROPERTY

The site consists of 18 multi-unit buildings that include 40 housing units occupied by Marine personnel and family.

3.6 PAST USES OF THE PROPERTY

Historical uses of the property were evaluated through review of databases searched by Track Info Services, LLC (TIS) and presented in an Environmental FirstSearch™ Report.

In 1918, Fort Hase was commissioned and was known as the Kuwaahoe Military Reservation. In 1939, the Navy constructed a small seaplane base and upon its completion, Naval Air Station Kaneohe's role was expanded to include the administration of the Kaneohe Bay Naval Defense Sea Area. After the war, air station activities consisted of limited air operations, a small security detachment, and a federal communications center. In 1951, the station was proposed as an ideal site for combined air-ground team, so the Marines assumed control of the air station activities when naval aviation moved to Barbers Point Naval Air Station. On January 15, 1952, Marine Corps Air Station, Kaneohe Bay was commissioned.

The housing units were constructed in 1992. As presented in the 1950, 1969, 1990 and 1998 aerial photos (Section 4.4.1), the site was vacant prior to construction of the housing units. There were no aerial photographs available prior to 1950.

3.7 CURRENT AND PAST USES OF THE ADJOINING PROPERTIES

Table 3-1 in Section 3.2, *Site and Vicinity Characteristics*, provides a description of the current uses of the adjoining properties. Historical aerial photographs indicate that the adjoining properties to the north, south, east and west were primarily undeveloped until residential housing at the Mololani and Kaluapuni neighborhoods was constructed, which first appeared in the 1969 historical aerial photograph

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4.0 RECORDS REVIEW

This section presents information concerning the site and the surroundings from various recorded sources. Electronic databases representing standard environmental record sources and physical setting sources were reviewed. Information pertinent to the site is summarized in this section.

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES, FEDERAL AND STATE

Parsons has retained the services of an environmental database company to search applicable regulatory agency lists and standard environmental record sources to identify locations of potential concern within the ASTM Standard Practice E 1527-05 (Standard) minimum search distances. The following summarizes the environmental database report, dated February 12, 2006. Appendix A presents the complete environmental data report. The report includes maps indicating the search distance of 0.125, 0.25, 0.5, and 1 mile (0.2, 0.4, 0.8, and 1.6 kilometers [km]) from the center of the site, which include the ASTM database required search distances of zero, 0.125, 0.25, 0.5, and 1 mile (zero, 0.2, 0.4, 0.8, and 1.6 km).

The following subsections summarize sites listed within the respective database search distances. A search of the respective environmental databases identified four sites within the ASTM-prescribed minimum search distances. Exhibit 4 presents the location of the mapped sites relative to the site.

4.1.1 Federal ASTM Records

National Priorities List

The National Priorities List (NPL) listing, also known as the Superfund list, is a subset of the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) database. The NPL database identifies over 1,200 sites nationwide for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As a result, the environmental database company provides coverage for over 1,000 NPL site boundaries produced by the United States Environmental Protection Agency (USEPA) Environmental Photographic Interpretation Center.

Currently, there are no listed NPL sites located within the 1-mile (1.6-km) search distance from the site.

Comprehensive Environmental Response, Compensation, and Liability Information System

The CERCLIS database contains data on potentially hazardous waste sites that have been reported to USEPA by states, municipalities, private companies, and private persons.

Notification to USEPA is pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLIS database contains sites that are either proposed to be on or on the NPL, and sites that are in the screening and assessment phase for possible inclusion on the NPL.

Currently, there are no listed CERCLIS sites located within the 0.5-mile (0.8-km) search distance from the site.

CERCLIS – No Further Remedial Action Planned

Beginning in February 1995, CERCLIS sites designated No Further Remedial Action Planned (NFRAP) have been removed from the CERCLIS database. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action of NPL consideration. USEPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived these as historical records so that USEPA does not needlessly repeat the investigations in the future.

Currently, there are no listed CERCLIS-NFRAP sites located within the 0.5-mile (0.8-km) search distance from the site.

Resource Conservation and Recovery Act / Corrective Action Report

The Corrective Action Report (RCRA COR) database identifies hazardous waste handlers with Resource Conservation and Recovery Act (RCRA) action activity. The database shows which nationally defined corrective action core events have occurred for every handler that has currently or previously had corrective action activity.

Currently, there are no listed RCRA COR sites within the 1-mile (1.6-km) search distance from the site.

Resource Conservation and Recovery Act information System/Treatment, Storage, and/or Disposal

The Resource Conservation and Recovery Act Information System/ Treatment, Storage and/or Disposal (RCRA TSD) database list identifies those facilities or locations that have notified USEPA of their activities relative to their onsite treatment, storage, and/or disposal of hazardous wastes. A listed site does not necessarily indicate environmental problems at the site but rather that the site is (or was) engaged in hazardous waste activities; therefore, it may have the potential to cause environmental degradation if hazardous wastes have been mishandled or otherwise released in an uncontrolled manner.

Currently, there are no RCRA TSD sites within the 0.5-mile (0.8-km) search distance from the site.

Resource Conservation and Recovery Act / Quantity Generators

The Resource Conservation and Recovery Act Information System Sites / Quantity Generators (RCRA GEN) is a database of facilities that generate or transport hazardous waste or meet other RCRA requirements. Two categories of RCRA GEN are usually considered. Large Quantity Generators (LQGs) list identifies those facilities or locations that have notified USEPA that they generate (or have generated) at least 2,200 lbs (998 kg) of non-acutely hazardous wastes and/or 2.2 lbs (1 kg) of acutely hazardous waste, monthly. Small Quantity Generators (SQGs) list identifies those facilities or locations that have notified USEPA that they generate (or have generated) less than 2,200 lbs (998 kg) of non-acutely hazardous wastes and/or 2.2 lbs (1 kg) of acutely hazardous waste, monthly. A listed site does not necessarily indicate environmental problems on the site, but rather that the site is (or was) engaged in hazardous waste activities; therefore, it may have the potential to cause environmental degradation if hazardous wastes have been mishandled or otherwise released in an uncontrolled manner.

Currently, there are no listed RCRA GEN sites within the 0.25-mile (0.4 km) search distance from the site.

Resource Conservation and Recovery Act / No Longer Report

The Resource Conservation and Recovery Act Information Sites / No Longer Report (RCRA NLR) is a database of facilities not currently classified by the USEPA but is still included in the RCRIS database. The reasons for non classification are: (1) Failure to report in a timely matter; (2) No longer in business at the listed address, and/or (3) No longer generating hazardous waste materials in quantities which require reporting.

Currently, there are no listed RCRA NLR sites within the 0.12-mile (0.2 km) search distance from the site.

Emergency Response Notification System

The Emergency Response Notification System (ERNS) is a USEPA national computer database system that is used to store information on the sudden and/or accidental release of hazardous substances, including petroleum, into the environment. The ERNS reporting system contains preliminary information on specific releases, including the spill location, the substance released, and the responsible party. The ERNS report only includes releases from 1988 to the most recent quarterly update.

Currently, there are no ERNS sites within the 0.12-mile (0.2 km) search distance from the site.

National Pollutant Discharge Elimination System

The National Pollutant Discharge Elimination System (NPDES) is a database of permitted facilities receiving and discharging effluents to and from a natural source where treatment of the effluent is monitored.

Currently, there are no NPDES sites with the 0.25-mile (0.4 km) search distance from the site.

Facility Index System

The Facility Index System (FINDS) is a database maintained by USEPA/National Technical Information Service that contains both facility information and "pointers" to other sources or more detailed information. The FINDS is the index of identification numbers associated with a property or facility which the USEPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the USEPA office that may have files on the site or facility. A Facility Registry System (FRS) site has an FRS in the status field.

Currently, there are no FINDS sites within the 0.25-mile (0.4-km) search distance from the site.

Toxic Release Inventory System

The Toxic Release Inventory System (TRIS) is a USEPA database that identifies all facilities that have had or may be prone to toxic material releases.

Currently, there are no TRIS sites within the 0.25-mile (0.4-km) search distance of the site.

Wetlands

The US Fish and Wildlife Service maintains a National Wetlands Inventory (NWI) database of information summarizing characteristics, extent, and status of the Nation's wetlands and deepwater habitats. This database is available for select areas of the United States.

Currently, there are three wetlands within the 0.5-mile (0.8-km) search distance from the site. Designation as a wetland is not an indication of an environmental discharge, violation or concern. These wetlands do not constitute a REC for the site.

Floodplains

The Floodplains is a database maintained by the Federal Emergency Management Agency which summarizes 100 year and 500 year floodplain boundaries for select counties in the United States.

Currently, there are no Floodplain sites within the 0.5-mile (0.8-km) search distance from the site.

Receptors

The sensitive receptors are listed by the 2002 Census Bureau's TIGER (Topologically Integrated Geographic Encoding and Referencing System), from the US Department of Commerce. This database summarizes all schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

Currently, there are no receptors listed within the 0.12-mile (0.2-km) search distance from the site.

Nuclear Permits

The Nuclear Regulatory Commission of the USEPA maintains a database of permitted nuclear facilities (RADINFO). This database provides basic information about facilities that are permitted and regulated for their use and handling of radioactive materials.

Currently, there is no Nuclear Permit on record within the 0.5-mile (0.8-km) search distance from the site.

4.1.2 State of Hawaii ASTM Records

Underground Storage Tanks

The Underground Storage Tanks (REG UST/AST) is a database identifying underground and aboveground storage tanks in the State of Hawaii. This database is maintained by the Hawaii Department of Health (HDOH).

Currently, there are no REG UST/AST sites listed within the 0.25-mile (0.4-km) search distance from the site.

Leaking Underground Storage Tank

The Leaking Underground Storage Tanks (LUST) is a database identifying underground and aboveground storage tanks that have been leaking, and is maintained by the HDOH.

Currently, there are no LUST sites within the 0.5-mile (0.8-km) search distance from the site.

4.1.3 Non-ASTM Supplemental Records

Historic/Landmark

The National Park Service maintains a National Registry of Historic Places database. This database contains the Nation's official list of cultural resources worthy of preservation. Properties listed include districts, sites, buildings, structures, and objects that are significant in American history, architectures, archeology, engineering, and culture.

Currently, there are no Historic/Landmark sites within the 0.5-mile (0.8-km) search distance from the site.

Federal Land Use

The Federal Lands of the United States is a database of lands owned or administered by the Federal Government, including the Bureau of Land Management, the Bureau of Reclamation, the US Department of Agriculture Forest Service, the Department of

Defense, the US Fish and Wildlife Service, the Tennessee Valley Authority, and other agencies. Only areas of 640 acres or more are included in this listing. The database provides descriptive information that includes name and type of the Federal land and the administering agency. Indian Lands of the United States is a database of areas administered by the Bureau of Indian Affairs and exceeding 640 acres in size. This database includes Federally-administered lands within a reservation which may or may not be considered part of the reservation. Endangered Species Protection Program is a database that provides a list of the Endangered Species by county and the species status.

The site is considered a Federal Land Use site. Because designation as a Federal Land Use site simply indicates that the Federal government owns and/or operates the land, this site does not constitute a REC to the site.

Federal Wells

The USGS maintains a database of more than 850,000 records of wells, springs, test holes, tunnels, drains, and excavations in the United States. This database is an inventory of the United States Groundwater Sites.

Currently, there are no Federal Wells sites within the 0.5-mile (0.8-mile) search distance from the site.

Releases (Air/Water)

The USEPA has a list of Air and Surface Water Releases. This list is a subset of the ERNS-National Response System database detailing sites that have impacted only the air or surface water.

Currently, there are no Releases (Air/Water) within the 0.12-mile (0.2-km) search distance from the site.

Hazardous Materials Incident Response System

The Hazardous Materials Incident Response System (HMIRS) is a database of information regarding materials, packaging, and a description of events for tracked incidents.

Currently, there were no HMIRS sites within the 0.12-mile (0.2-km) search distance from the site.

National Compliance Data Base

The National Compliance Data Base System (NCDB) is a database of regional compliance and enforcement activity and manages the Pesticides and Toxic Substances compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts an inspection until the time the inspector closes the case or the case settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for monitoring national performance of regional programs.

Currently, there are no NCDB sites within the 0.25-mile (0.4-km) search distance from the site.

PADS

The USEPA maintains a database of PCB handlers. This database includes PCB generators, transporters, storers and/or disposers that are required to register with the USEPA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

Currently, there are no PADS sites within the 0.25-mile (0.4-km) search distance from the site.

Federal Other

Section Seven Tracking System (SSTS) within the USEPA maintains a database of registration and production data for facilities which manufacture pesticides. Aerometric Information Retrieval System (AIRS) is another database of detailed information pertaining to sites which submit air emissions reports. Developed under the Clean Air Act, this database also maintains data on compliance status and enforcement actions.

Currently, there is no Federal Other site within the 0.25-mile (0.4-km) search distance from the site.

Towers

Towers is a database that encompasses three sources of information from the Federal Aviation Administration (FAA) and the Federal Communication Commission (FCC). FAA data includes the Digital Obstacle File which contains obstruction data for man made objects that affect domestic aeronautical charting products. FCC data includes the

Wireless Telecommunication Bureau's Universal Licensing System which contains the Antenna Structure Database and the Cellular Tower Database. FCC data also includes the Mass Media Bureau's Consolidated database System which includes engineering data for AM, FM, and Television broadcasting stations.

Currently, there are no Towers within the 0.25-mile (0.4-km) search distance from the site.

Radon

The USEPA collected radon data from 1990-1991 national radon project. This project collected data for a variety of zip codes across the United States. The radon data listed here is based on the radon data collected for this site's zip code.

The National Radon Database indicates the presence of radon in the area in concentrations between 0.9 and 1.0 picoCuries/liter (pCi/L). These concentrations are above the screening levels for Zones 1 and 2 and were based on national radon data collected for various zip codes. Although these values exceed the screening levels for Zone 1 and Zone 2, radon information for the Hawaiian Islands indicates that the USEPA has categorized Hawaii as Zone 3 for radon. A Zone 3 classification is for areas with indoor average radon levels of less than to 2 pCi/L. This is below the USEPA radon recommended action level (RAL) of 4 pCi/L.

4.2 ENVIRONMENTAL AGENCY RECORDS

Findings from the environmental database review did not reveal any RECs resulting in the need for further review of agency records.

4.3 NAVY RECORDS AND DOCUMENTS

4.3.1 Environmental Baseline Survey

Application of waste oil as a dust suppressant along the road ways within the vicinity of the site may have occurred, potentially resulting in a pre-existing condition. This was reported to have been a common practice at other military installations.

The Environmental Baseline Survey reports that according to housing management, pesticides/herbicides have been legally applied to the interior and exterior of the homes at MCBH Kaneohe Bay to control vegetative growth and infestation. Although the Nani Ulupau neighborhood was constructed in the 1990s, well after the ban of chlordane, DDT and other pesticides, application of banned pesticides, for vector control, may have occurred prior to the construction of the Nani Ulupau neighborhood.

The EBS reports that Housing Unit 2686 located on the northern end of the neighborhood is currently being impacted by soil erosion from the hillside adjacent to the east of the building. During storm events, soil carried by runoff is deposited around Housing Unit 2686. This is a natural occurrence and not an environmental issue and thus not a REC.

The Environmental Baseline Survey reports that human remains have been encountered during previous construction at the Nani Ulupau neighborhood.

4.3.2 Integrated Natural Resources Management Plan

The Marine Corp Base Hawaii Integrated Natural Resources Management Plan and Environmental Assessment (MCB Hawaii 2001) served as a reference for endangered species data in the Kaneohe Bay area. The four resident native waterbird species observed primarily at Kaneohe Bay wetlands that are federally listed endangered species are of special protection concern (e.g., Hawaiian stilt (*ae'o*, *Himantopus mexicanus knudseni*), Hawaiian gallinule (*'alae 'ula*, *Gallinula chloropus sandvicensis*); Hawaiian Coot (*'alae ke'oke'o*, *Fulica americana alai*), and Hawaiian duck (*koloa moali*, *Anas wyvilliana*)). The growing colony of wedge-tailed shearwaters (*Puffinus pacificus chlororhynchus*) nesting in the eastern sand dune of the pond shoreline is also of special protection concern. There are no naturally-occurring plant species currently found at Kaneohe Bay that are identified as listed endangered species.

In addition to the diverse marine organisms of concern, hosted in marine waters of Mokapu's 500-yard buffer zone (e.g., coral colonies, sponges, bryozoans, sabellid worms, tunicates, and 200 fish species), there are several species of marine animals in the waters off-shore of MCBH-KB that have been declared threatened or endangered by the federal government and are of special protection concern. These include threatened green sea turtles (*Chelonia mydas*), the endangered hawksbill turtle (*Eretmochelys imbricata*), the endangered Hawaiian monk seal (*Monachus schauinslandi*), and the endangered humpback whale (*Megaptera novaeangliae*). Of these species, there have been several documented "false nest" attempts by sea turtles along Mokapu shoreline beaches, but these turtles regularly swim and feed in Mokapu's nearshore waters. Hawaiian monk seals infrequently haul out to rest along Mokapu shoreline beaches on the northwest and northeast coastline either side of Pyramid Rock.

4.3.3 Asbestos Management Plan

An asbestos assessment for the site was completed in October 1996 by the Department of the Navy Public Works Center. The assessment did not identify ACM at the site. Results of the assessment show that no potential hazards exist due to ACM.

4.3.4 Lead-Based Paint Management Plan

A lead assessment for the site was completed in October 1996. Housing units at Nani Ulupau were constructed after 1984, and therefore were inspected under a modified protocol, as directed by Naval Facilities Engineering Command. The protocol includes inspections for lead in dust and soil. Inspections for lead in paint were not conducted in housing units under this protocol due to the recent construction of these units. Results of the lead assessment for the site indicate that lead levels in dust samples did not exceed the current HUD/EPA Guidance action levels of 40 $\mu\text{g}/\text{ft}^2$ for floors, 250 $\mu\text{g}/\text{ft}^2$ for window sills, and 400 $\mu\text{g}/\text{ft}^2$ for window wells. Soil samples at the site were not found to exceed current HUD/EPA Guidance action level of 400 ppm.

4.4 PHYSICAL SETTINGS SOURCE(S)

4.4.1 USGS Topographic Map

Exhibit 3 presents the location of the site on a USGS topographic map.

4.4.2 Geological, Hydrogeological, and Meteorological Review

Geology

The island of O'ahu originated from the remnants of two shield volcano mountain ranges, with the older Waianae Mountain Range on the west and the younger Koolau Range on the east. The Kaneohe MCB is located on the Mokapu peninsula, adjacent to Kaneohe Bay and downgradient from the Koolau mountain range. Three volcanic vents are present on the peninsula from the Honolulu Volcanic Series. These include the Ulupau cone (tuff cone) to the east, Puu Hawaiioloa (cinder cone and lava flow) in the center of the peninsula and Pyramid Rock (lava flow) at the northern tip of the peninsula (Macdonald, 1983). Except for these features, the topography in the area rises from sea level to some 100 feet above mean sea level. Geologic formations in the area include coral reef deposits, sedimentary deposits and underlying basalt flows as well as tuff and cinder cones.

Hydrogeology

The depth to groundwater here is anticipated at elevations close to mean sea level. On the Mokapu peninsula, two aquifer types are present: upper basal (fresh water in contact with sea water) unconfined aquifers in sedimentary deposits and a lower basal confined aquifers in dike deposits (Mink and Lau, 1990).

Meteorology

The site is located within the Kaneohe area of O'ahu. Meteorological studies and investigations from a weather station located at Kaneohe Mauka have indicated that the

average high of 83.2 degrees Fahrenheit (°F) occurs during the summer months and a low of 65.3°F occurs in the winter months. The average annual maximum temperature is 79.8°F. Rainfall occurs year-round, providing an average annual rainfall of 76.0 inches (1.93 m) of rain (WRCC, 2006).

4.5 HISTORICAL USE INFORMATION

4.5.1 Aerial Photographs

Copies of aerial photographs of the site and surrounding areas were obtained for the years 1950, 1969, 1990 and 1998 from TIS (there were no aerial photographs available prior to 1950).. These photographs are presented in Appendix B. The following historical information was identified on the aerial photographs:

1950: The site and the immediately adjacent property surrounding the site are undeveloped.

1969: The site remains undeveloped. However the residential housing areas to the east and west have been developed. The south-southeast adjacent properties are still undeveloped.

1990: The site remains undeveloped. However, significantly more residential development is visible to the west of the site. The south-southeast adjacent properties are still undeveloped.

1998: The site is developed. Some housing is visible to the south of the site, but the area southeast of the site is still relatively undeveloped.

4.5.2 Historic Topographic Maps

Copies of historic topographic maps of the site and surrounding areas were obtained for the years 1959, 1968, 1983 and 1998 from TIS. These maps are presented in Appendix C. The site development as recorded on the historic topographic maps is closely aligned with the development presented in the historical aerial photographs.

4.5.3 Fire Insurance Maps

Sanborn® fire insurance maps were not available for the site.

4.5.4 Recorded Land Title Records

The site is currently owned by the Federal government and managed by the Department of Defense. Declarations of taking by the United States government for military use were made through July 2, 1918 and December 3, 1936.

4.5.5 Building Department Records

The site is currently owned by the Federal government and managed by the Department of Defense. Parsons coordinated with the Navy during the site reconnaissance and records search. Information regarding date of construction and subsequent modifications to structures was reviewed and incorporated into this assessment from information provided by the Navy, available on the Internet and other documents provided by the Design contractor.

4.5.6 Zoning/Land Use Records

The zoning designation for the site is F-1, Military and Federal.

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5.0 INFORMATION FROM SITE RECONNAISSANCE AND INTERVIEWS

Parsons conducted reconnaissance of the site on February 25, 2006. At the direction of the Marines, there were no units available for inspection. The site serves as residential housing and is largely occupied.

5.1 HAZARDOUS SUBSTANCES IN CONNECTION WITH IDENTIFIED USES

During the site reconnaissance, hazardous substances were not observed at the site.

5.2 HAZARDOUS SUBSTANCE CONTAINERS AND UNIDENTIFIED SUBSTANCE CONTAINERS

During the site reconnaissance, hazardous substance or unidentified substance containers were not observed at the site.

5.3 STORAGE TANKS

During the site reconnaissance, there were no storage tanks observed at the site.

5.4 INDICATIONS OF PCBS

During the site reconnaissance, land-based power transformers which have the potential to contain PCBs were observed in various locations on the property. Regarding the power transformers, PCB-free labels were observed during the course of the site reconnaissance of military facilities. As a result, it is likely that the transformer oil currently used at the site is PCB-free.

During the site reconnaissance, fluorescent lighting was observed in the interior of the housing units and in the detached carports. These lights are of a newer, ballast-free design, constructed post-1980, and are hence PCB-free.

5.5 INDICATIONS OF ASBESTOS

At the direction of the Marines, the interior of housing units were not available for inspection as part of the site reconnaissance.

5.6 INDICATIONS OF SOLID WASTE DISPOSAL

During the site reconnaissance, minimal domestic trash (litter) was observed.

5.7 PHYSICAL SETTING ANALYSIS, IF MIGRATING HAZARDOUS SUBSTANCES ARE AN ISSUE

Section 4.1 summarizes potential concerns regarding nearby sites that may have an impact on the site and Section 4.4 summarizes the physical setting.

5.8 WETLANDS AND FLOODPLAINS

During the site reconnaissance, no wetlands or floodplains were observed.

5.9 LEAD

The site reconnaissance did not reveal any indications of lead at the site.

5.10 ENDANGERED SPECIES AND SENSITIVE ENVIRONMENTS

5.10.1 Endangered Species

No endangered species were observed during the site reconnaissance.

5.10.2 Sensitive Environments

No sensitive environments were observed during the site reconnaissance.

5.11 INTERVIEWS

5.11.1 Military Organizations

(b) (6), Director of Family Housing and (b) (6), Building Maintenance Supervisor for the Marine Corps Base Hawaii were interviewed (Parsons 2006).

5.11.2 Hawaii Department of Health

The Hawaii Department of Health (HDOH) maintains a database of Activity and Use Limitations (AULs). The database was queried to determine if the subject property has any recorded AULs. No AULs were recorded. However, the database is still under development and according to HDOH representatives (b) (6) and (b) (6), August 8, 2006), this may indicate that the site is currently under evaluation for applicable restrictions. The HDOH representative also indicated that the primary source of information for the database for military family housing sites is the Finding of Suitability (FOS) report (Parsons, 2006). The FOS was reviewed and it was determined that there are no AULs for the subject site (DON, 2006).

5.12 OTHER CONDITIONS OF CONCERN

There are no other conditions of concern.

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6.0 FINDINGS

6.1 FINDINGS SUMMARY

In conclusion, based on the definition of a REC in the ASTM Standard Practice E 1527-05, the following RECs have been identified for the site:

- Although no ACMs were observed during the site reconnaissance or identified in the asbestos management plan, housing units at the site are likely to be of drywall construction with potential for ACM in the drywall joint compound. Drywall joint compound is not a material sampled as part the asbestos assessment completed for the site. Therefore, it is recommended that available construction specifications and/or building records for the site be reviewed to determine if construction materials are ACM-free. If ACM materials are confirmed, it is recommended that the presence of ACM be disclosed to prospective tenants. It is also recommended if demolition occurs, the ACM Management Plan be followed.
- The Environmental Baseline Survey reports that according to housing management, pesticides/herbicides have been legally applied to the interior and exterior of the homes at MCBH Kaneohe Bay to control vegetative growth and infestation. Although the Nani Ulupau neighborhood was constructed in the 1990s, well after the ban of chlordane, DDT and other pesticides, application of banned pesticides, for vector control, may have occurred prior to the construction of the Nani Ulupau neighborhood.

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7.0 OPINION

Based on the findings of our assessment, Parsons provides the following opinions on the observed conditions:

The following RECs has been identified for the site:

- Although no ACMs were observed during the site reconnaissance or identified in the asbestos management plan, housing units at the site are likely to be of drywall construction with potential for ACM in the drywall joint compound. Drywall joint compound is not a material sampled as part the asbestos assessment completed for the site. Therefore, it is the opinion of the Environmental Professional (EP) that available construction specifications and/or building records for the site be reviewed to determine if construction materials are ACM-free. If ACM materials are confirmed, it is recommended that the presence of ACM be disclosed to prospective tenants. It is also recommended if demolition occurs, the ACM Management Plan be followed.
- According to housing management, pesticides/herbicides have been legally applied to the interior and exterior of the homes at MCBH Kaneohe Bay to control vegetative growth and infestation. Although the Nani Ulupau neighborhood was constructed in the 1990s, well after the ban of chlordane, DDT and other pesticides, it is the opinion of the EP that application of banned pesticides, for vector control, may have occurred prior to the construction of the Nani Ulupau neighborhood.

The EBS reports that the application of waste oil as a dust suppressant along the road ways within the vicinity of the site may have occurred, potentially resulting in a pre-existing condition. This was reported to have been a common practice at other military installations. Since no documentation can be found to support that this practice occurred at the site, it is the opinion of the EP that this does not constitute a REC for the site.

The EBS reports that Housing Unit 2686 located on the northern end of the neighborhood is currently being impacted by soil erosion from the hillside adjacent to the east of the building. During storm events, soil carried by runoff is deposited around Housing Unit 2686. It is the opinion of the EP that soil erosion as a result of precipitation events is a natural occurrence and not an environmental issue and thus not a REC.

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8.0 CONCLUSIONS

Parsons has conducted this Phase I Environmental Site Assessment in accordance with the American Society for Testing and Materials Standard Practice E 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Assessment Process of the Nani Ulupau Marine Family Housing Area located in the Kaneohe Area of O'ahu, Hawaii. This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property except for the following:

8.1 GENERAL CONCLUSIONS

Per the findings above, the following RECs were identified for the site: (1) ACM in the drywall joint compound and (2) chlordane and other pesticides including DDT, dieldrin, and heptachlor in soil.

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9.0 DEVIATIONS AND DATA GAPS

9.1 DEVIATIONS

Photographs were not taken during the course of the site reconnaissance.

9.2 DATA GAPS

Data is not presented in the following report sections:

3.4.5 Valuation Reduction for Environmental Issues

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10.0 REFERENCES

10.1 REFERENCES

Aquifer Identification and Classification for Oahu: Groundwater Protection Strategy for Hawaii, Mink, John F. and Lau, Stephen L., February 1990 (Revised).

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Draft Finding of Suitability for Public Private Venture Action, Various Marine Corps Base Hawaii Housing Areas: MCBH Kaneohe Bay, MCBH Camp H.M. Smith and MCBH Manana Family Housing Areas, Oahu, Hawaii for Naval Facilities Engineering Command Pacific Division. April 2006.

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Personal communication between (b) (6) and (b) (6) of Hawaii Department of Health and (b) (6) and (b) (6) of Parsons. August 8, 2006.

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
NANI ULUPAU MARINE FAMILY HOUSING AREA
KANEHOE AREA OF O'AHU, HAWAII**

Personal communication between (b) (6) and (b) (6) of the Marine Corps Base Hawaii and (b) (6) and (b) (6) of Parsons. August 8, 2006.

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TIS. Environmental FirstSearch™ Report. February 12, 2006.

TIS. Historical Aerial Photograph Report February 28, 2006.

TIS. Historical Topographic Map Report. March 6, 2006.

Volcanoes in the Sea, The Geology of Hawaii, Second Ed., Macdonald et. al., 1983.

Western Regional Climate Center Web Page (<http://www.wrcc.dri.edu/>)

11.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

Parsons declares that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of Title 40, Code of Federal Regulations (CFR), Part 312 dated 1 November 2005.

We have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquires in conformance with the standards and practices set forth in 40 CFR 312.

Signature:

Date:

(b) (6)

(b) (6), P.E.

September 2006

(b) (6)

(b) (6), P.E.

September 2006

(b) (6)

(b) (6)

September 2006

(b) (6)

(b) (6)

September 2006

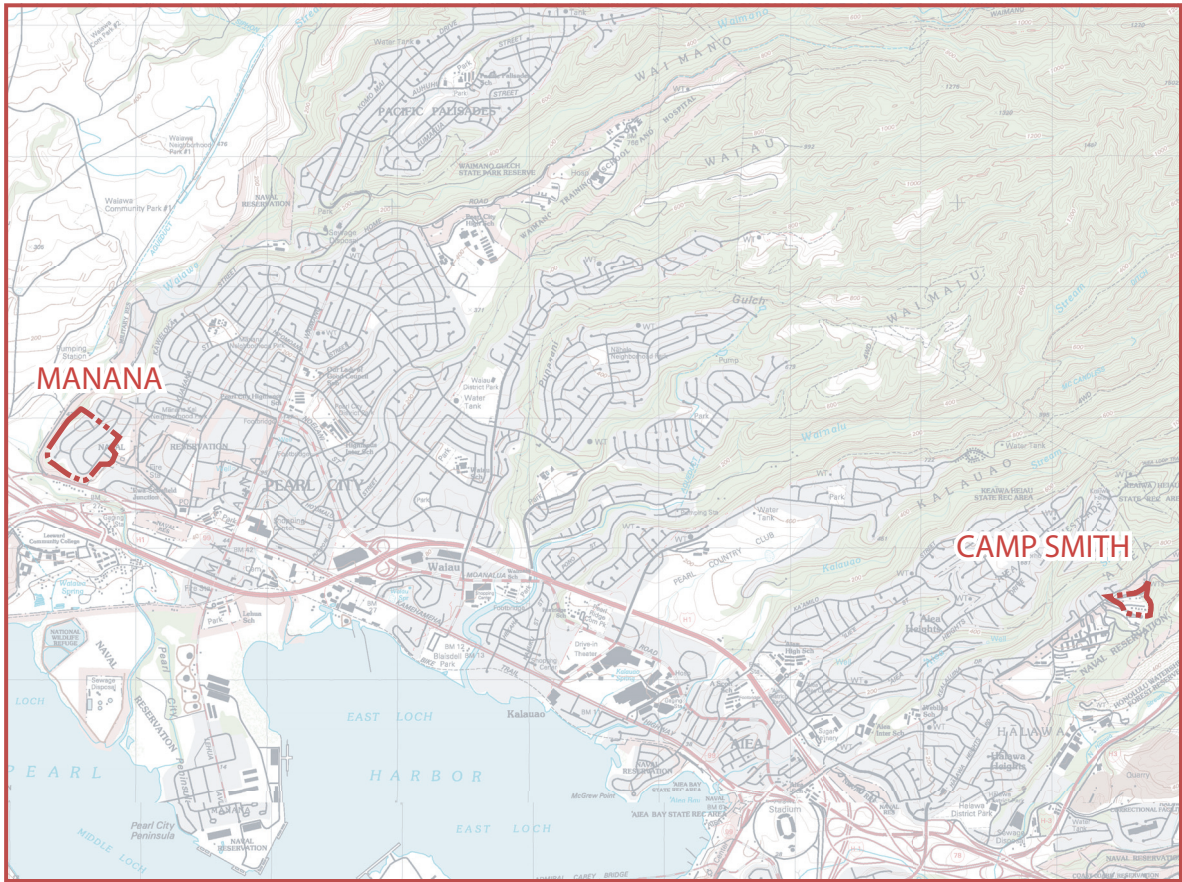
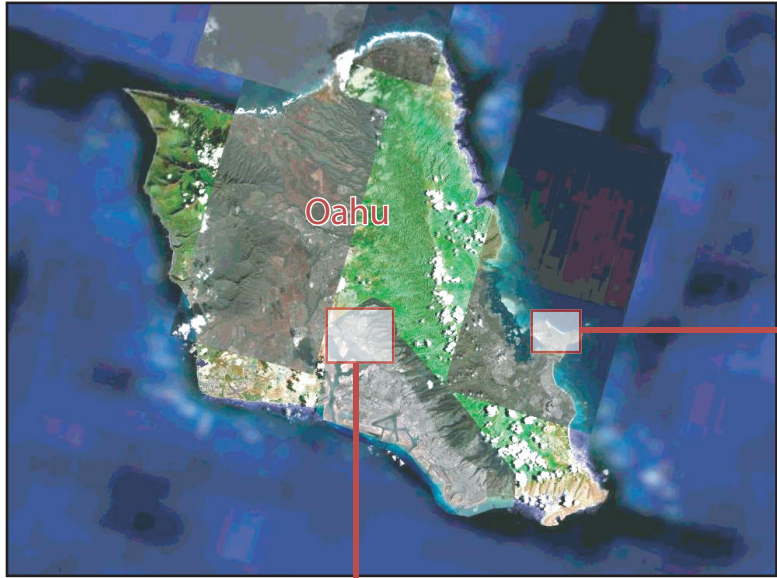
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12.0 QUALIFICATION(S) OF ENVIRONMENTAL PROFESSIONAL(S)

Name	Degree	Years of Experience	Project Responsibilities
(b) (6), P.E.	M.S., Chemical Engineering	28	Site reconnaissance, data review and report preparation
(b) (6), P.E.	M.S., Chemical Engineering	27	Site reconnaissance, data review and report preparation
(b) (6)	B.A., Environmental Studies	5	Site reconnaissance, data review and report preparation
	B.A., Anthropology		
(b) (6)	B.S., Chemical Engineering	3	Site reconnaissance, data review and report preparation

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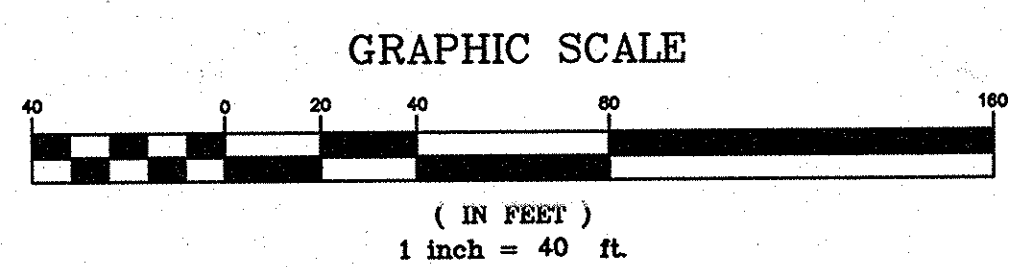
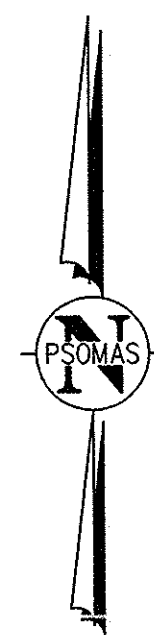
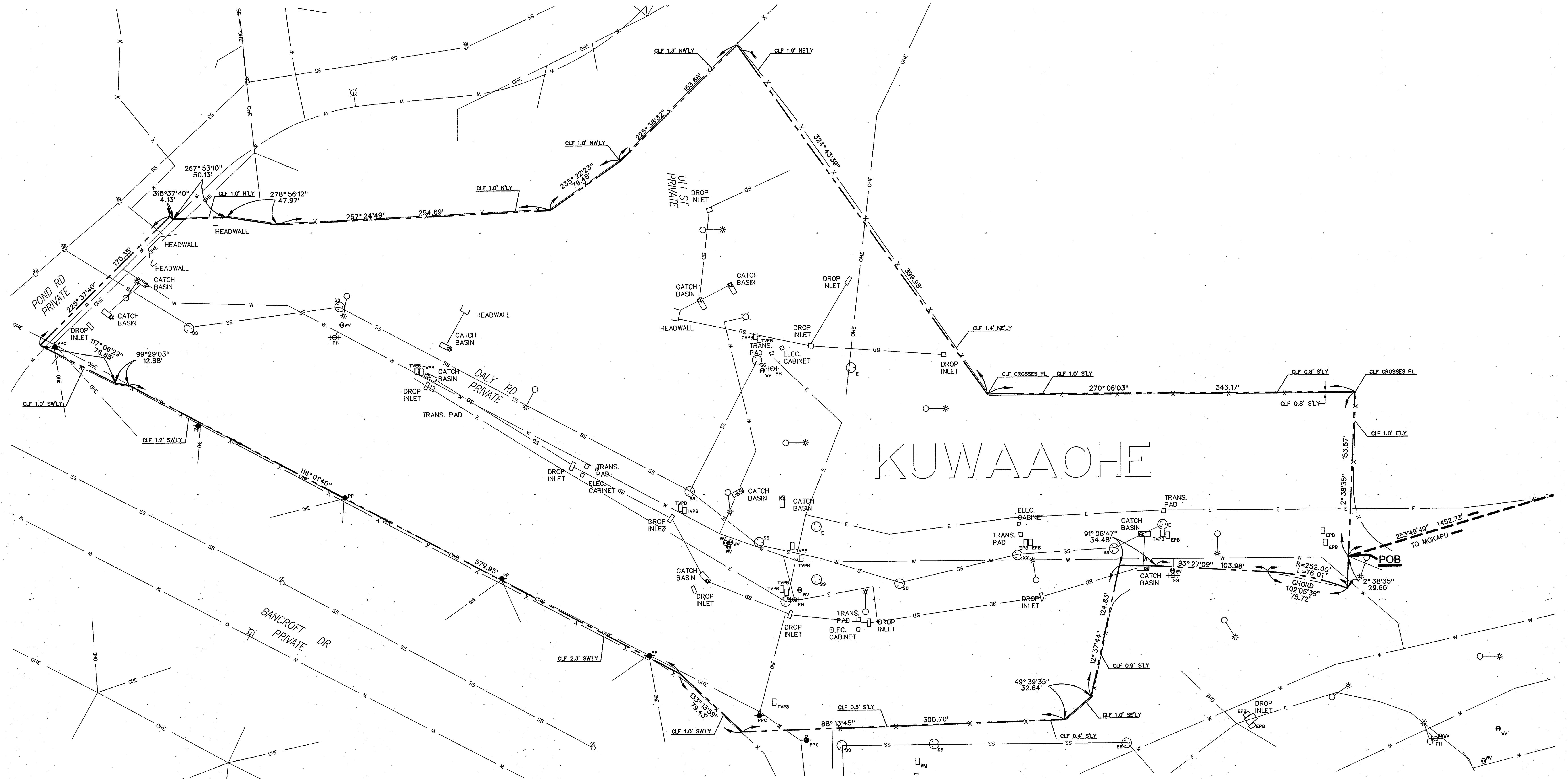
EXHIBIT 1
SITE MAP



MARINE SITES CONTEXT
Overall Location Map

Honolulu, Hawaii

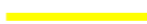
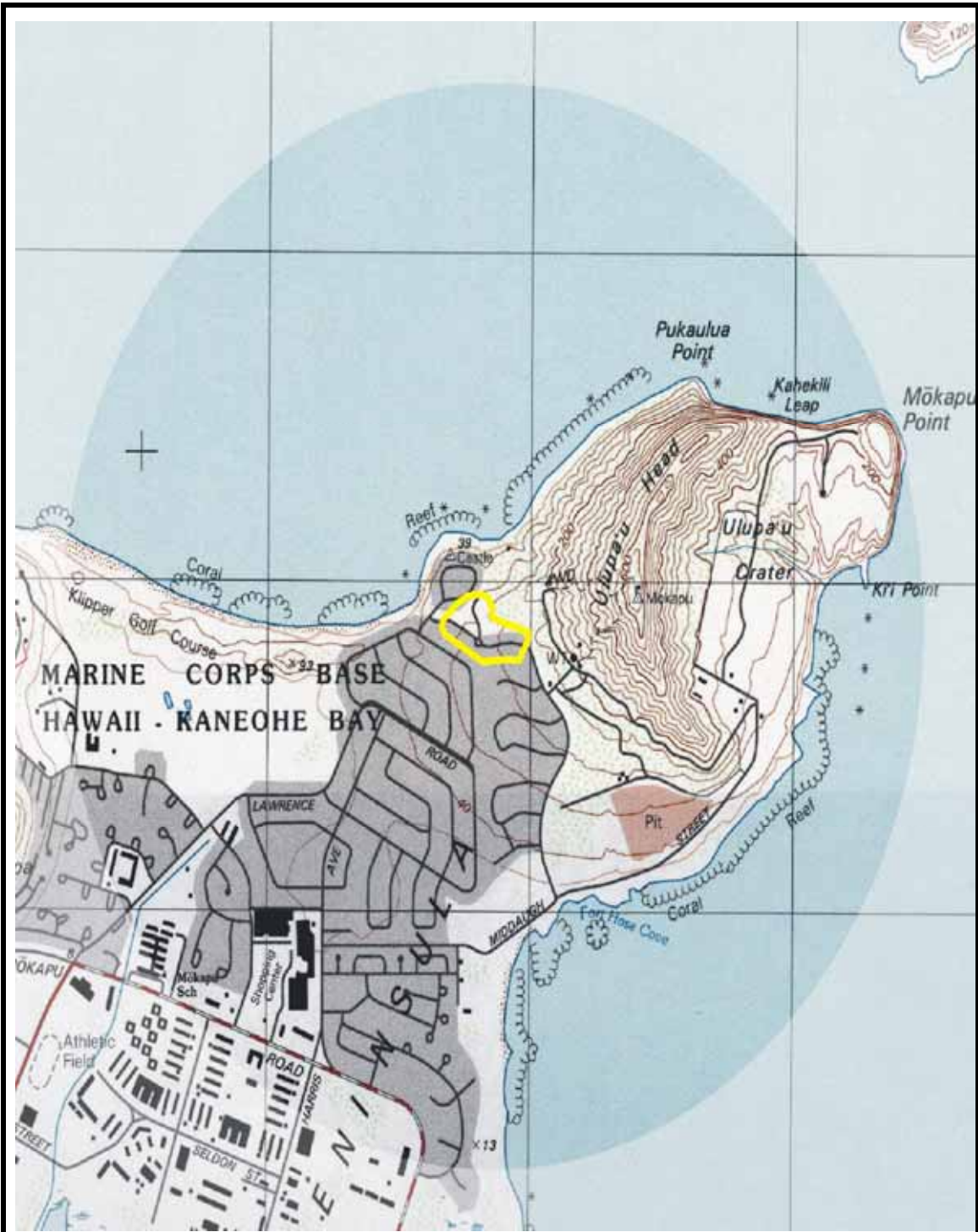
EXHIBIT 2
SITE SURVEY MAP



SEE SHEET 1 FOR LEGEND, NOTES, & VICINITY MAP

DRAWN (1) 4-4-008-003 (PORTION)	DESIGNED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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EXHIBIT 3
SITE TOPOGRAPHICAL MAP



Site Boundary

Exhibit 3
Site Topographical Map

EXHIBIT 4
ENVIRONMENTAL DATABASE SITES WITHIN ASTM SEARCH
DISTANCE

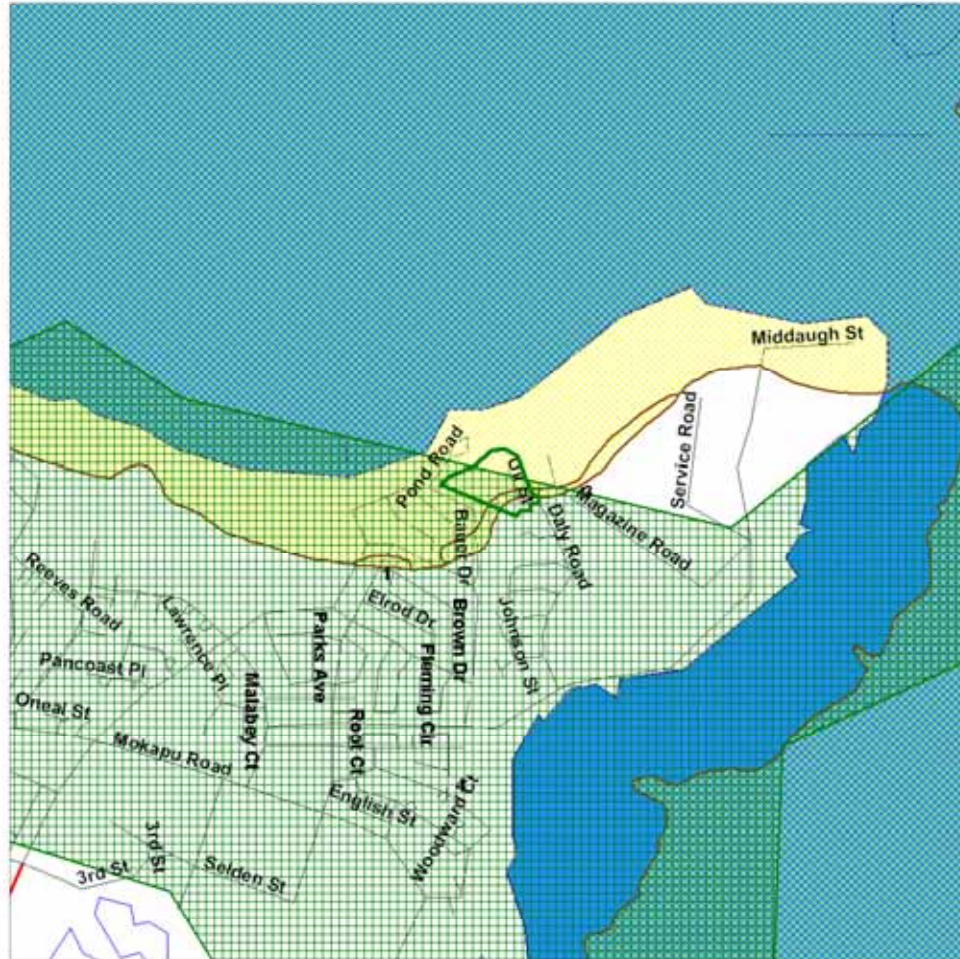


Environmental FirstSearch

1 Mile Radius from Area
Single Map:



NANI ULUPAU MARINE FAMILY HOUSING , KANEOHE HI 96744



Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
Railroads



Exhibit 4
Environmental Database Sites within
ASTM Search Distance

Appendix A

ENVIRONMENTAL DATABASE REPORT

TRACK ► INFO SERVICES, LLC

Environmental FirstSearch™ Report

TARGET PROPERTY:

NANI ULUPAU MARINE FAMILY HOUSING

KANEOHE HI 96744

Job Number: 904293

PREPARED FOR:

Parsons

100 West Walnut Street

Pasadena, CA 91124

02-12-06



Tel: (866) 664-9981

Fax: (818) 249-4227

Environmental FirstSearch Search Summary Report

Target Site: NANI ULUPAU MARINE FAMILY HOUSING
KANE OHE HI 96744

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	01-13-06	1.00	0	0	0	0	0	0	0
CERCLIS	Y	01-13-06	0.50	0	0	0	0	-	0	0
NFRAP	Y	08-01-05	0.12	0	0	-	-	-	0	0
RCRA TSD	Y	09-22-05	0.50	0	0	0	0	-	0	0
RCRA COR	Y	12-10-05	1.00	0	0	0	0	0	0	0
RCRA GEN	Y	12-10-05	0.25	0	0	0	-	-	0	0
RCRA NLR	Y	12-10-05	0.12	0	0	-	-	-	0	0
ERNS	Y	12-31-05	0.12	0	0	-	-	-	0	0
NPDES	Y	10-14-05	0.25	0	0	0	-	-	0	0
FINDS	Y	09-12-05	0.25	0	0	0	-	-	0	0
TRIS	Y	12-01-05	0.25	0	0	0	-	-	0	0
State Sites	Y	NA	1.00	0	0	0	0	0	0	0
Spills-1990	Y	NA	0.12	0	0	-	-	-	0	0
Spills-1980	Y	NA	0.12	0	0	-	-	-	0	0
SWL	Y	NA	0.50	0	0	0	0	-	0	0
Permits	Y	NA	0.25	0	0	0	-	-	0	0
Other	Y	NA	0.25	0	0	0	-	-	0	0
REG UST/AST	Y	08-01-05	0.25	0	0	0	-	-	0	0
Leaking UST	Y	08-01-05	0.50	0	0	0	0	-	0	0
State Wells	Y	NA	0.50	0	0	0	0	-	0	0
Aquifers	Y	NA	0.50	0	0	0	0	-	0	0
ACEC	Y	NA	0.50	0	0	0	0	-	0	0
Wetlands	Y	NA	0.50	2	0	1	0	-	0	3
Floodplains	Y	NA	0.50	0	0	0	0	-	0	0
Nuclear Permits	Y	NA	0.50	0	0	0	0	-	0	0
Historic/Landmark	Y	11-17-05	0.50	0	0	0	0	-	0	0
Federal Land Use	Y	01-27-05	0.50	1	0	0	0	-	0	1
Federal Wells	Y	05-19-03	0.50	0	0	0	0	-	0	0
Releases(Air/Water)	Y	12-31-05	0.12	0	0	-	-	-	0	0
HMIRS	Y	03-15-05	0.12	0	0	-	-	-	0	0
NCDB	Y	08-30-04	0.25	0	0	0	-	-	0	0
PADS	Y	09-29-05	0.25	0	0	0	-	-	0	0
Federal Other	Y	05-13-05	0.25	0	0	0	-	-	0	0
Brownfield	Y	10-18-05	0.25	0	0	0	-	-	0	0
Towers	Y	01-15-04	0.25	0	0	0	-	-	0	0
Soils	Y	03-18-97	0.25	0	0	0	-	-	0	0
Receptors	Y	NA	0.12	0	0	-	-	-	0	0
FIMAP	N	07-14-05	0.50	-	-	-	-	-	-	-
- TOTALS -				3	0	1	0	0	0	4

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to TRACK Info Services, certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in TRACK Info Services's databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although TRACK Info Services uses its best efforts to research the actual location of each site, TRACK Info Services does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of TRACK Info Services's services proceeding are signifying an understanding of TRACK Info Services's searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

***Environmental FirstSearch
Site Information Report***

Request Date: 02-12-06
Requestor Name: (b) (6)
Standard: ASTM

Search Type: AREA
Job Number: 904293

Filtered Report

TARGET ADDRESS: NANI ULUPAU MARINE FAMILY HOUSING
KANEEOHE HI 96744

Demographics

Sites: 4	Non-Geocoded: 0	Population: NA
Radon: -1 - 0.9 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
Longitude:	-157.739975	-157:44:24	Easting:	630560.6
Latitude:	21.456305	21:27:23	Northing:	2373035.136
			Zone:	4

Comment

Comment:HAWAII MARINE HOUSING

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

Services:

ZIP Code	City Name	ST	Dist/Dir	Sel
96734	KAILUA	HI	0.00 --	Y

	Requested?	Date
Sanborns	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search	No	
Municipal Reports	No	
Online Topos	No	

***Environmental FirstSearch
Sites Summary Report***

TARGET SITE: NANI ULUPAU MARINE FAMILY HOUSING **JOB:** 904293
Kaneohe HI 96744 HAWAII MARINE HOUSING

TOTAL: 4 **GEOCODED:** 4 **NON GEOCODED:** 0 **SELECTED:** 0

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	LANDUSE	MARINE CORPS DOD KANEOHE MARINE CO 45965	HI	0.00 --	4
1	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1456/M1RFIL	HI	0.00 --	3
2	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1440/M1OWL	HI	0.00 --	2
2	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1437/M1RFIL	HI	0.21 SW	1

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: NANI ULUPAU MARINE FAMILY HOUSING **JOB:** 904293
Kaneohe HI 96744 HAWAII MARINE HOUSING

FEDERAL LAND USE

SEARCH ID: 4 **DIST/DIR:** 0.00 -- **MAP ID:** 4

NAME: MARINE CORPS DOD KANEOHE MARINE CORPS AIR STATION	REV: 1/27/05
ADDRESS: HI	ID1: 45965
	ID2:
CONTACT:	STATUS:
	PHONE:

FEDERAL LAND INFORMATION

NAME:	KANEOHE MARINE CORPS AIR STATION
FEATURE:	MARINE CORPS DOD
ADMINISTERING AGENCY:	DOD
STATE FIPS:	15
AREA:	0.001
PERIMETER:	0.162

WETLANDS

SEARCH ID: 3 **DIST/DIR:** 0.00 -- **MAP ID:** 3

NAME: NATIONAL WETLANDS INVENTORY	REV: 2/27/02
ADDRESS: HI	ID1: NWI-HI-1456
	ID2:
CONTACT:	STATUS: M1RFIL
	PHONE:

SITE INFORMATION

AREA:	55450.88
PERIMETER:	2466.34
WETC:	7
WETC_ID:	8
ATTRIBUTE:	M1RFIL

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: NANI ULUPAU MARINE FAMILY HOUSING **JOB:** 904293
KANE OHE HI 96744 HAWAII MARINE HOUSING

WETLANDS

SEARCH ID: 2 **DIST/DIR:** 0.00 -- **MAP ID:** 2

NAME: NATIONAL WETLANDS INVENTORY	REV: 2/27/02
ADDRESS: HI	ID1: NWI-HI-1440
	ID2:
CONTACT:	STATUS: M1OWL
	PHONE:

SITE INFORMATION

AREA:	135440235.87
PERIMETER:	69443.55
WETC:	2
WETC_ID:	3
ATTRIBUTE:	M1OWL

WETLANDS

SEARCH ID: 1 **DIST/DIR:** 0.21 SW **MAP ID:** 1

NAME: NATIONAL WETLANDS INVENTORY	REV: 2/27/02
ADDRESS: HI	ID1: NWI-HI-1437
	ID2:
CONTACT:	STATUS: M1RFIL
	PHONE:

SITE INFORMATION

AREA:	8287.78
PERIMETER:	494.226
WETC:	10
WETC_ID:	9
ATTRIBUTE:	M1RFIL

Environmental FirstSearch Database Descriptions

NPL: *EPA* NATIONAL PRIORITY LIST - Database of confirmed, proposed or deleted Superfund sites.

CERCLIS: *EPA* COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM - Database of current and potential Superfund sites currently or previously under investigation.

NFRAP: *EPA* COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

RCRA TSD: *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of facilities licensed to store, treat and dispose of hazardous waste materials.

RCRA COR: *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of RCRA facilities with reported violations and subject to corrective actions.

RCRA GEN: *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of facilities that generate or transport hazardous waste or meet other RCRA requirements. LGN - Large Quantity Generators SGN - Small Quantity Generators VGN – Conditionally Exempt Generator. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

RCRA NLR: *EPA* RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of facilities not currently classified by the EPA but are still included in the RCRIS database. Reasons for non classification: Failure to report in a timely matter. No longer in business. No longer in business at the listed address. No longer generating hazardous waste materials in quantities which require reporting.

ERNS: *EPA/NRC* EMERGENCY RESPONSE NOTIFICATION SYSTEM - Database of emergency response actions. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

NPDES: *EPA* THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM - Database of permitted facilities receiving and discharging effluents to and from a natural source where treatment of the effluent is monitored.

FINDS: *EPA* FACILITY INDEX SYSTEM(FINDS)/FACILITY REGISTRY SYSTEM(FRS) - The index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility. A Facility Registry System site has an FRS in the status field.

TRIS: *EPA* TOXIC RELEASE INVENTORY SYSTEM - Database of all facilities that have had or may be prone to toxic material releases.

REG UST/AST: *HI DOH* UNDERGROUND STORAGE TANKS- The Hawaii Department of Health's inventory of underground storage tanks.

LEAKING UST: *HI DOH* LEAKING UNDERGROUND STORAGE TANKS-The Hawaii Department of Health's inventory of sites with leaking underground storage tanks.

WETLANDS: *US FWS* NATIONAL WETLANDS INVENTORY (NWI) - database of information on the characteristics, extent, and status of the Nation's wetlands and deepwater habitats. This data is available for select areas of the United States.

FLOODPLAINS: *FEMA* FLOODPLAINS – database of 100 year and 500 year flood zone boundaries for select counties in the United States

RECEPTORS: *US DOC* SENSITIVE RECEPTORS - 2002 Census Bureau's TIGER (Topologically Integrated Geographic Encoding and Referencing System) database of schools and hospitals. List of schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

NUCLEAR PERMITS: *EPA/NRC* PERMITTED NUCLEAR FACILITIES THE RADINFO DATABASE - Database of basic information about facilities that are permitted and regulated for their use and handling of radioactive materials.

HISTORIC/LANDMARK: *NPS* NATIONAL REGISTRY OF HISTORIC PLACES DATABASE - The nation's official list of cultural resources worthy of preservation. Properties listed include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture.

FEDERAL LAND USE: *USGS/EPA* FEDERAL LANDS OF THE UNITED STATES - Database of lands owned or administered by the Federal Government, including the Bureau of Land Management, the Bureau of Reclamation, the U.S. Department of Agriculture Forest Service, the Department of Defense, the U.S. Fish and Wildlife Service, the National Park Service, the Tennessee Valley Authority, and other agencies. Only areas of 640 acres or more are included. Descriptive information includes the name and type of the Federal land and the

administering agency.INDIAN LANDS OF THE UNITED STATES - Areas administered by the Bureau of Indian Affairs shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.ENDANGERED SPECIES PROTECTION PROGRAM DATABASE – List of the Endangered Species by county and the species status.

FEDERAL WELLS: *USGS* UNITED STATES GROUND-WATER SITES INVENTORY - Database of more than 850,000 records of wells, springs, test holes, tunnels, drains, and excavations in the United States.

RELEASES(AIR/WATER): *EPA/NRC* AIR AND SURFACE WATER RELEASES - A subset of the ERNSNational Response System database which have impacted only the air or surface water.

HMIRS: *US DOT* HAZARDOUS MATERIALS INCIDENT RESPONSE SYSTEM - Database of information regarding materials, packaging, and a description of events for tracked incidents.

NCDB: *EPA* NATIONAL COMPLIANCE DATA BASE SYSTEM - Database of regional compliance and enforcement activity and manages the Pesticides and Toxic Substances Compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts and inspection until the time the inspector closes or the case settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for monitoring national performance of regional programs.

OTHER: *EPA* SECTION SEVEN TRACKING SYSTEM (SSTS) – database of registration and production data for facilities which manufacture pesticides.AEROMETRIC INFORMATION RETRIEVAL SYSTEM (AIRS) – database of detailed information pertaining to sites which submit air emissions reports. Developed under the Clean Air Act, this database also maintains data on compliance status and enforcement actions.

TOWERS: *FAA/ FCC* Tower - database encompasses three sources of information from the Federal Aviation Administration and the Federal Communications Commission. FAA data includes the Digital Obstacle File which contains obstruction data for man made objects that affect domestic aeronautical charting products. FCC data includes the Wireless Telecommunication Bureau's Universal Licensing System which contains the Antenna Structure Database and the Cellular Tower Database. FCC data also includes the Mass Media Bureau's Consolidated Database System which includes engineering data for AM, FM, and Television broadcasting stations.

SOILS: *USGS/NRCS* NATIONAL SOILS DATABASE - Database comprised of the State Soil Geographic (STATSGO) data for the conterminous United States, Soil Survey Geographic (SSURGO) and Digital Data Series Bedrock data. These databases contain information regarding soil characteristics such as water capacity, percent clay, organic material, permeability, thickness of layers, hydrological characteristics, quality of drainage, surface, slope, liquid limit, and the annual frequency of flooding.

PADS: *EPA* DATABASE OF PCB HANDLERS - Database of PolyChlorinatedBiPhenol generators, transporters, storers and/or disposers that are required to register with the EPA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

RADON: *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

Environmental FirstSearch Database Sources

NPL: *EPA* Environmental Protection Agency

Updated quarterly

CERCLIS: *EPA* Environmental Protection Agency

Updated quarterly

NFRAP: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA TSD: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA COR: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA GEN: *EPA* Environmental Protection Agency.

Updated quarterly

RCRA NLR: *EPA* Environmental Protection Agency

Updated quarterly

ERNS: *EPA/NRC* Environmental Protection Agency

Updated semi-annually

NPDES: *EPA* Environmental Protection Agency

Updated quarterly

FINDS: *EPA* Environmental Protection Agency

Updated annually

TRIS: *EPA* Environmental Protection Agency.

Updated quarterly

REG UST/AST: *HI DOH* The Hawaii Department of Health, Solid and Hazardous Waste Branch

Updated biannually

LEAKING UST: *HI DOH* The Hawaii Department of Health, Solid and Hazardous Waste Branch

Updated biannually

WETLANDS: *US FWS* U.S. Fish and Wildlife Service

Updated when available

FLOODPLAINS: *FEMA* Federal Emergency Management Agency

Updated when available

RECEPTORS: *US DOC* US Department of Commerce, Census Bureau

Updated periodically

NUCLEAR PERMITS: *EPA/NRC* Nuclear Regulatory Commission

Updated periodically

HISTORIC/LANDMARK: *NPS* National Park Service

Updated annually

FEDERAL LAND USE: *USGS/EPA* U.S. Geological Survey

Updated annually

FEDERAL WELLS: *USGS* United States Geographical Survey.

Updated annually

RELEASES(AIR/WATER): *EPA/NRC* Environmental Protection Agency

Updated semi-annually

HMIRS: *US DOT* US Department of Transportation

Updated quarterly

NCDB: *EPA* Environmental Protection Agency

Updated quarterly

OTHER: *EPA* Environmental Protection Agency

Updated quarterly

TOWERS: *FAA/FCC* Federal Aviation Administration

Updated

SOILS: *USGS/NRCS* United States Geographical Survey

Updated annually

PADS: *EPA* Environmental Protection Agency

Updated quarterly

RADON: *NTIS* Environmental Protection Agency, National Technical Information Services

Updated periodically

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

TARGET SITE: NANI ULUPAU MARINE FAMILY HOUSING **JOB:** 904293
KANE OHE HI 96744 HAWAII MARINE HOUSING

Street Name	Dist/Dir	Street Name	Dist/Dir
Bancroft Dr	0.03 SW		
Bauer Dr	0.07 SW		
Blain Dr	0.13 SW		
Brown Dr	0.25 SW		
Campion Dr	0.25 SW		
Connor Loop	0.17 SE		
Daly Pl	0.00 --		
Daly Rd	0.00 --		
Dias Pl	0.05 SE		
Harris Ave	0.19 SW		
Magazine Rd	0.07 NE		
NOCOVERAGE	0.00 --		
Pond Rd	0.02 NW		
S Lawrence Rd	0.18 SW		
SOUTH Lawrence Rd	0.18 SW		
Uli St	0.00 --		



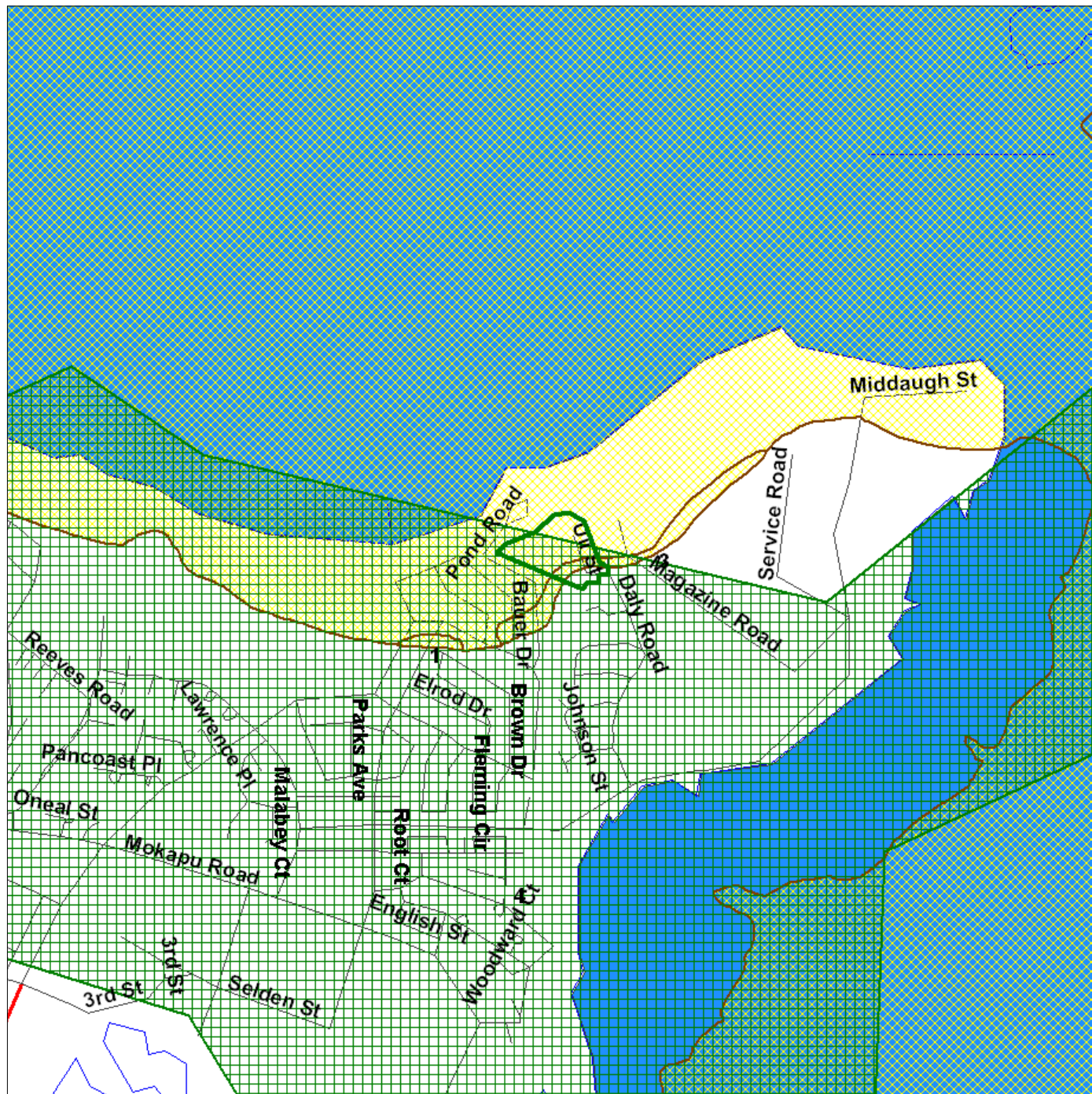
Environmental FirstSearch

1 Mile Radius from Area

Single Map:

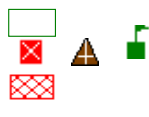


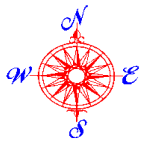
NANI ULUPAU MARINE FAMILY HOUSING , KANEEOHE HI 96744



Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
Railroads





Environmental FirstSearch

1 Mile Radius from Area
ASTM: NPL, RCRA COR, STATE



NANI ULUPAU MARINE FAMILY HOUSING , KANEOHE HI 96744

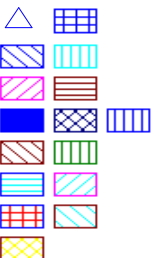


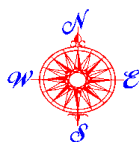
Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, DEP Zone II Boundaries
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC) ...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands





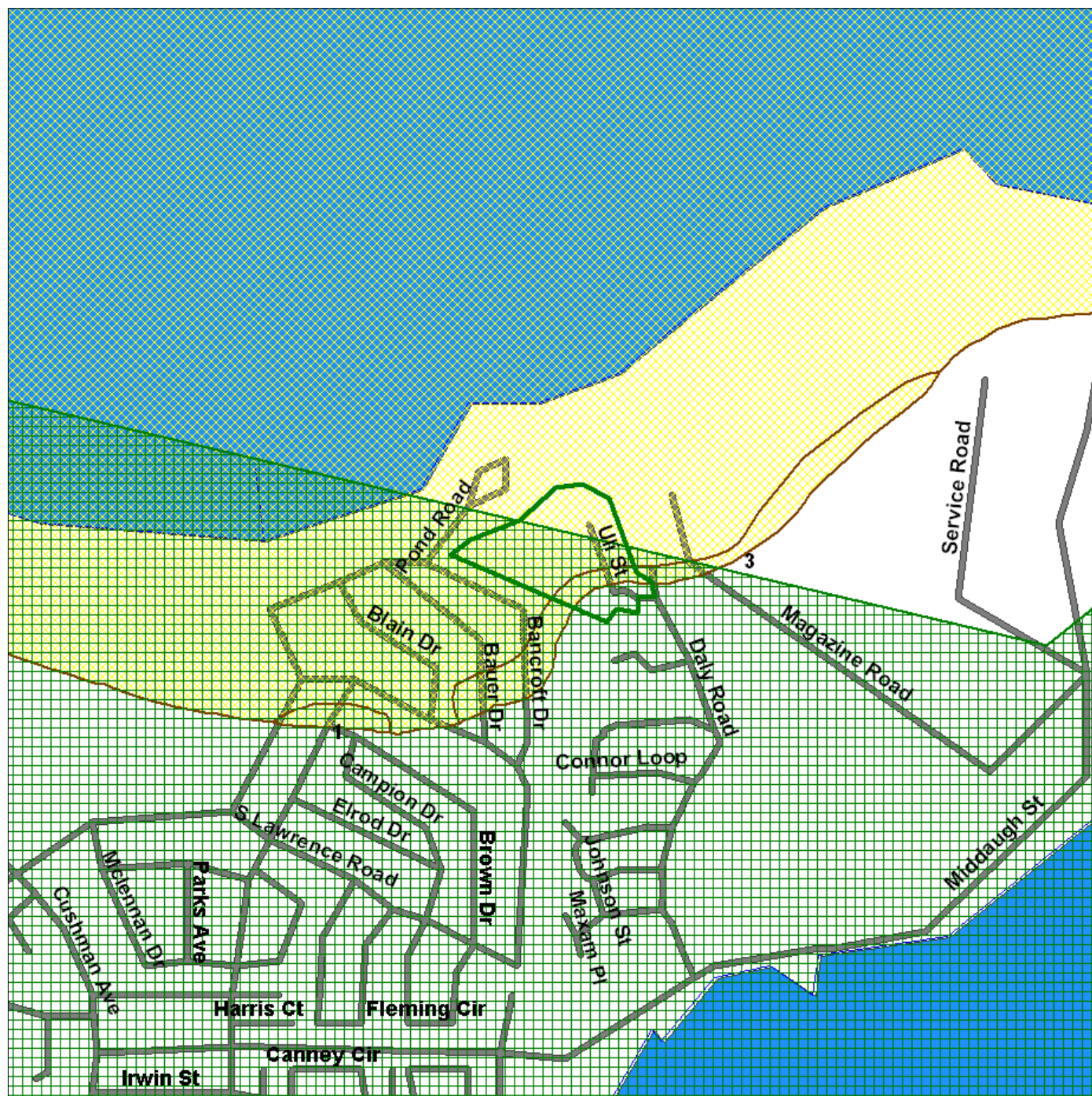
Environmental FirstSearch

.5 Mile Radius from Area

ASTM: Multiple Databases



NANI ULUPAU MARINE FAMILY HOUSING , KANEOHE HI 96744

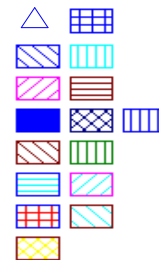


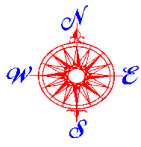
Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, DEP Zone II Boundaries
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands





Environmental FirstSearch

.12 Mile Radius from Area
ASTM: Multiple Databases



NANI ULUPAU MARINE FAMILY HOUSING , KANEOHE HI 96744

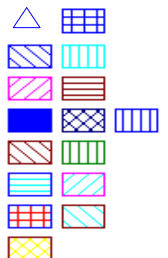


Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, DEP Zone II Boundaries
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands



TRACK ► INFO SERVICES, LLC

Environmental FirstSearch™ Report

TARGET PROPERTY:

BANCROFT DRIVE

KANEOHE HI 96744

Job Number: 904293

PREPARED FOR:

Parsons

100 West Walnut Street

Pasadena, CA 91124

08-12-06



Tel: (866) 664-9981

Fax: (818) 249-4227

Environmental FirstSearch Search Summary Report

Target Site: BANCROFT DRIVE
KANEOHE HI 96744

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NFRAP	Y	06-08-06	0.50	0	0	0	0	-	0	0
Brownfield	Y	10-18-05	0.50	0	0	0	0	-	0	0
- TOTALS -				0	0	0	0	0	0	0

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Waiver of Liability

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***Environmental FirstSearch
Site Information Report***

Request Date: 08-12-06
Requestor Name: (b) (6)
Standard: AAI

Search Type: AREA
Job Number: 904293

Filtered Report

TARGET ADDRESS: BANCROFT DRIVE
KANEEOHE HI 96744

Demographics

Sites: 0	Non-Geocoded: 0	Population: NA
Radon: -1 - 0.9 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
Longitude:	-157.739975	-157:44:24	Easting:	630560.6
Latitude:	21.456305	21:27:23	Northing:	2373035.136
			Zone:	4

Comment

Comment:RERUN ASTM 05

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

Services:

ZIP Code	City Name	ST	Dist/Dir	Sel
96734	KAILUA	HI	0.00 --	Y

	Requested?	Date
Sanborns	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search	No	
Municipal Reports	No	
Online Topos	No	

***Environmental FirstSearch
Sites Summary Report***

TARGET SITE: BANCROFT DRIVE
 KANEOHE HI 96744

JOB: 904293
 RERUN ASTM 05

TOTAL: 0 **GEOCODED:** 0 **NON GEOCODED:** 0 **SELECTED:** 0

<u>Page No.</u>	<u>DB Type</u>	<u>Site Name/ID/Status</u>	<u>Address</u>	<u>Dist/Dir</u>	<u>Map ID</u>
-----------------	----------------	----------------------------	----------------	-----------------	---------------

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: BANCROFT DRIVE
Kaneohe HI 96744

JOB: 904293
RERUN ASTM 05

No sites were found!

***Environmental FirstSearch
Site Detail Report***

TARGET SITE: BANCROFT DRIVE
Kaneohe HI 96744

JOB: 904293
RERUN ASTM 05

No sites were found!

Environmental FirstSearch Database Descriptions

NFRAP: *EPA* COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

RADON: *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

Environmental FirstSearch Database Sources

NFRAP: *EPA* Environmental Protection Agency.

Updated quarterly

RADON: *NTIS* Environmental Protection Agency, National Technical Information Services

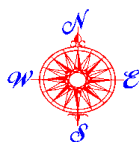
Updated periodically

Environmental FirstSearch
Street Name Report for Streets within .25 Mile(s) of Target Property

TARGET SITE: BANCROFT DRIVE
 KANEOHE HI 96744

JOB: 904293
RERUN ASTM 05

Street Name	Dist/Dir	Street Name	Dist/Dir
Bancroft Dr	0.03 SW		
Bauer Dr	0.07 SW		
Blain Dr	0.13 SW		
Brown Dr	0.25 SW		
Campion Dr	0.25 SW		
Connor Loop	0.17 SE		
Daly Pl	0.00 --		
Daly Rd	0.00 --		
Dias Pl	0.05 SE		
Harris Ave	0.19 SW		
Magazine Rd	0.07 NE		
Pond Rd	0.02 NW		
S Lawrence Rd	0.18 SW		
SOUTH Lawrence Rd	0.18 SW		
Uli St	0.00 --		



Environmental FirstSearch

1 Mile Radius from Area
Single Map:



BANCROFT DRIVE , KANEOHE HI 96744



Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
Railroads





Environmental FirstSearch

.5 Mile Radius from Area
AAI: NFRAP, BROWNFIELD

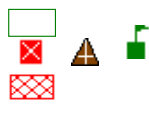


BANCROFT DRIVE , KANEOHE HI 96744



Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, Brownfield, Solid Waste Landfill (SWL) or Hazardous Waste
Railroads



Appendix B

HISTORICAL AERIAL PHOTOGRAPHS



Source: *Track Info Services*



NO SCALE

1950 Historical Aerial Photograph
Nani Ulupau Marine Family Housing



Source: *Track Info Services*



NORTH

NO SCALE

1969 Historical Aerial Photograph
Nani Ulupau Marine Family Housing



Source: *Track Info Services*



NORTH

NO SCALE

1990 Historical Aerial Photograph
Nani Ulupau Marine Family Housing



Source: *Track Info Services*



NO SCALE

1998 Historical Aerial Photograph
Nani Ulupau Marine Family Housing

Appendix C

HISTORICAL TOPOGRAPHICAL MAPS



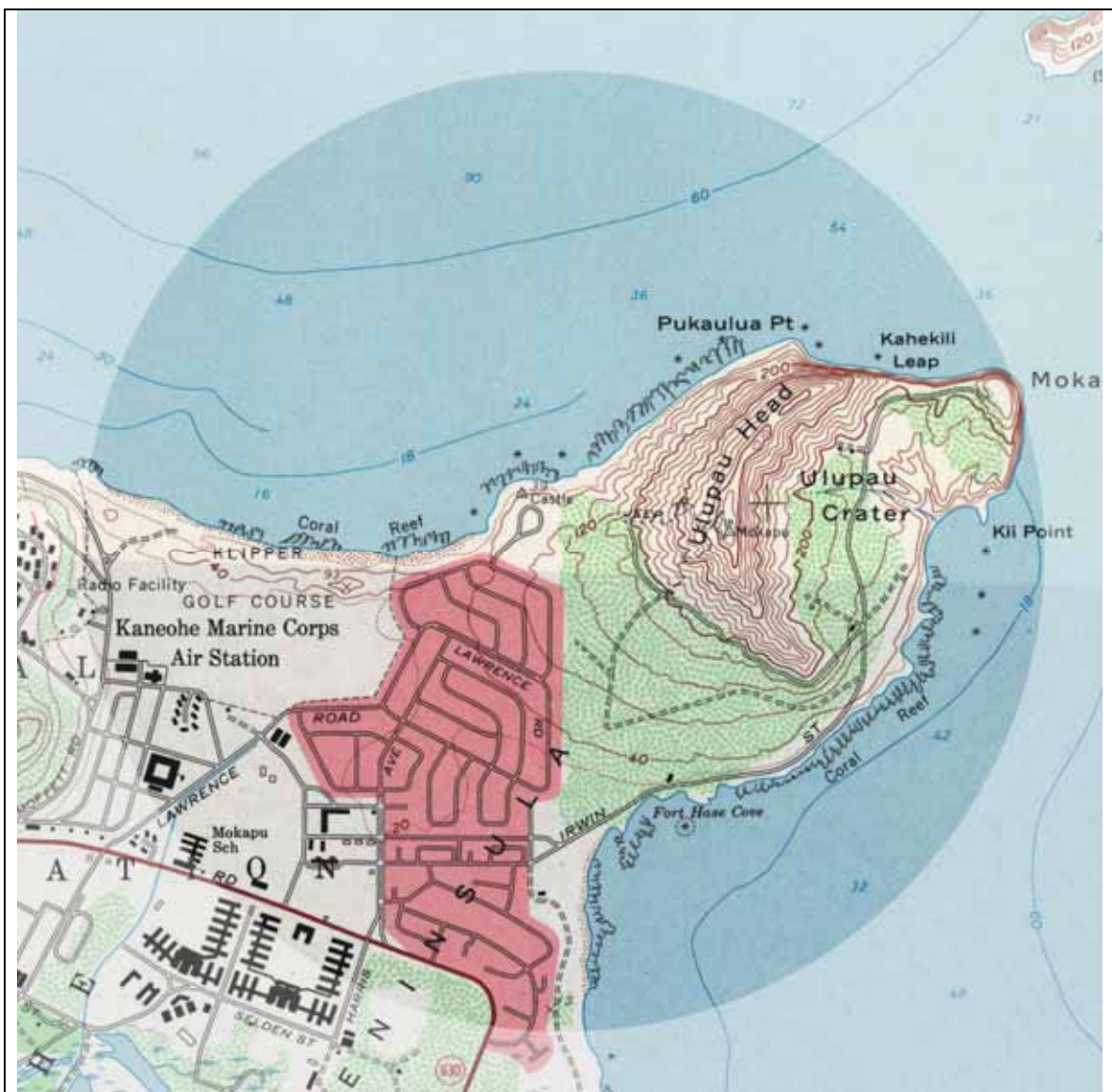
Source: USGS Mokapu, Hawaii Quadrangle, 7.5 Minute Series, 1959 (modified)



NORTH

1 inch = 1667 feet
SCALE

1959 Historical Topographic Map
Nani Ulupau Marine Family Housing



Source: USGS Mokapu, Hawaii Quadrangle, 7.5 Minute Series, 1968 (modified)

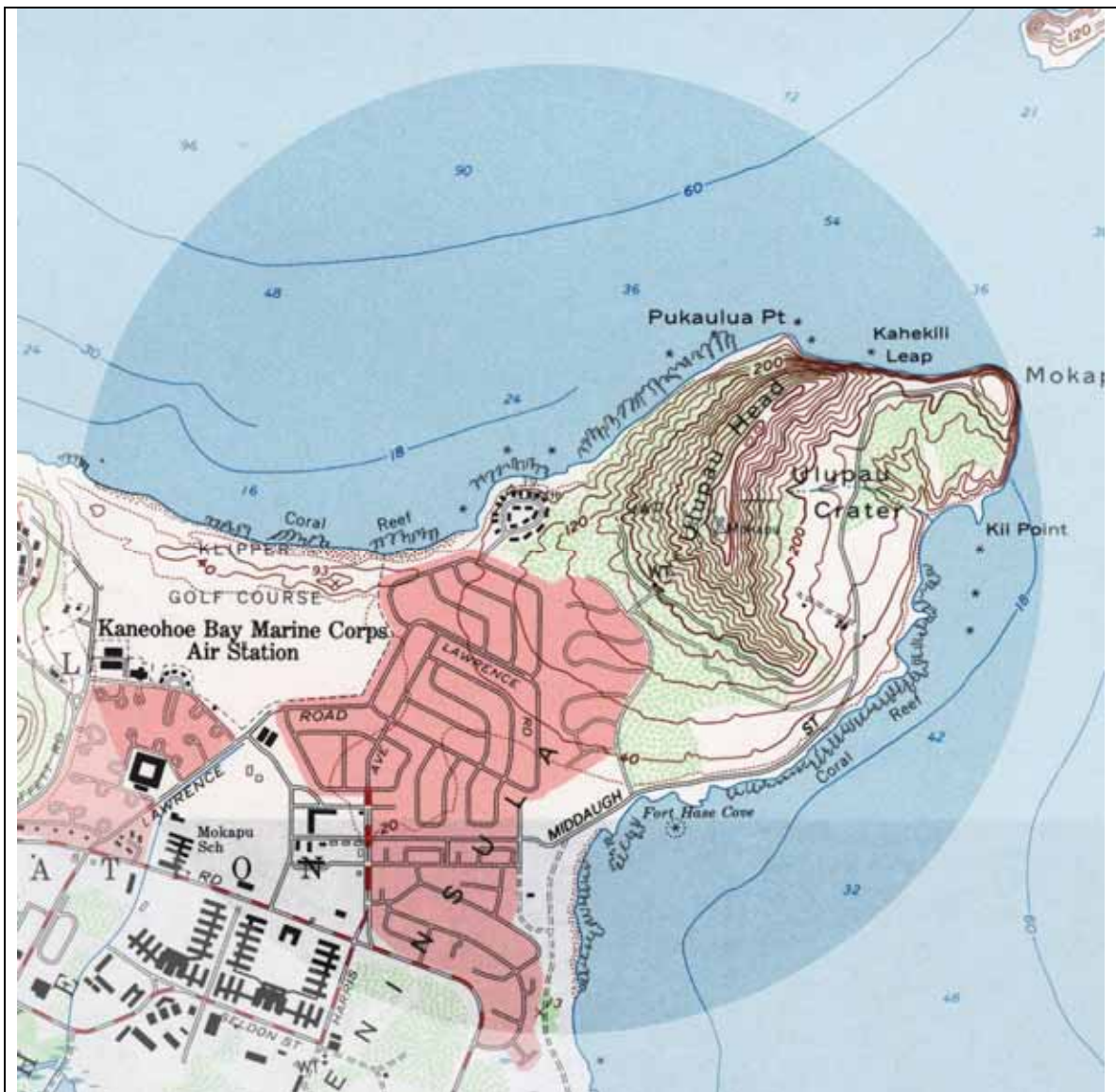


NORTH



1 inch = 1667 feet
SCALE

1968 Historical Topographic Map
Nani Ulupau Marine Family Housing



Source: USGS Mokapu, Hawaii Quadrangle, 7.5 Minute Series, 1983 (modified)

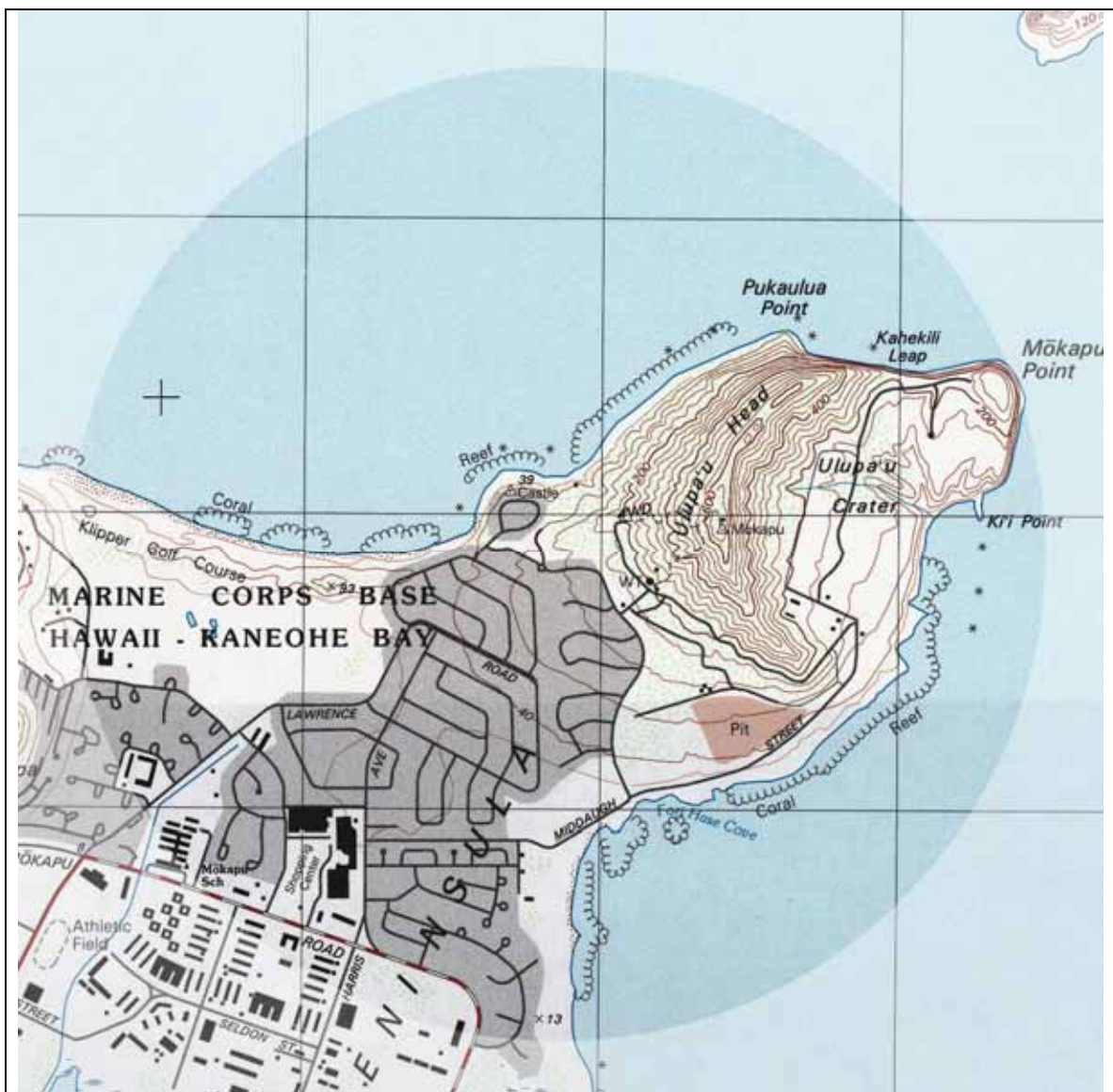


NORTH



1 inch = 1670 feet
SCALE

1983 Historical Topographic Map
Nani Ulupau Marine Family Housing



Source: USGS Mokapu, Hawaii Quadrangle, 7.5 Minute Series, 1998 (modified)



NORTH



1 inch = 1667 feet
SCALE

1998 Historical Topographic Map
Nani Ulupau Marine Family Housing

TRACK ► INFO SERVICES, LLC

Environmental FirstSearch™ Report

Target Property: NANI ULUPAU

KANEOHE HI 96744

Job Number: NANIULUPAU

PREPARED FOR:

Parsons Engineering
100 West Walnut Street
Pasadena, CA 91124

07-19-07



Tel: (866) 664-9981

Fax: (818) 249-4227

Environmental FirstSearch Search Summary Report

Target Site: NANI ULUPAU MARINE CORPS FAMILY HOUSING
KANE OHE HI 96744

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
NPL	Y	05-08-07	1.00	0	0	0	0	0	0	0
NPL Delisted	Y	03-08-07	0.50	0	0	0	0	-	0	0
CERCLIS	Y	05-08-07	0.50	0	0	0	0	-	0	0
NFRAP	Y	05-08-07	0.25	0	0	0	-	-	0	0
RCRA COR ACT	Y	06-06-06	1.00	0	0	0	0	0	0	0
RCRA TSD	Y	06-06-06	0.50	0	0	0	0	-	0	0
RCRA GEN	Y	06-06-06	0.25	0	0	0	-	-	0	0
RCRA NLR	Y	06-06-06	0.12	0	0	-	-	-	0	0
Federal IC / EC	Y	04-16-07	0.50	0	0	0	0	-	0	0
ERNS	Y	12-31-06	0.12	0	0	-	-	-	0	0
Tribal Lands	Y	12-01-05	1.00	0	0	0	0	0	0	0
State/Tribal Sites	Y	07-24-06	1.00	0	0	0	0	0	0	0
State Spills 90	Y	NA	0.12	0	0	-	-	-	0	0
State Spills 80	Y	NA	0.25	0	0	0	-	-	0	0
State/Tribal SWL	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal LUST	Y	07-28-06	0.50	0	0	0	0	-	0	0
State/Tribal UST/AST	Y	08-04-06	0.25	0	0	0	-	-	0	0
State/Tribal EC	Y	NA	0.50	0	0	0	0	-	0	0
State/Tribal IC	Y	07-24-06	0.25	0	0	0	-	-	0	0
State/Tribal VCP	Y	07-24-06	0.50	0	0	0	0	-	0	0
State/Tribal Brownfields	Y	07-24-06	0.50	0	0	0	0	-	0	0
State Wells	Y	NA	0.50	0	0	0	0	-	0	0
Aquifers	Y	NA	0.50	0	0	0	0	-	0	0
State ACEC	Y	NA	0.50	0	0	0	0	-	0	0
Wetlands	Y	NA	0.50	2	0	1	0	-	0	3
Floodplains	Y	NA	0.50	0	0	0	0	-	0	0
Receptors	Y	01-01-05	0.50	0	0	0	0	-	0	0
Historic Landmarks	Y	11-17-05	0.50	0	0	0	0	-	0	0
Federal Land Use	Y	08-01-06	0.50	1	0	0	0	-	0	1

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- Continued on next page -

Environmental FirstSearch

Search Summary Report

Target Site: NANI ULUPAU MARINE CORPS FAMILY HOUSING
KANE OHE HI 96744

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2>	ZIP	TOTALS
Federal Wells	Y	12-28-06	0.50	0	0	0	0	-	0	0
FAA/FTC Towers	Y	01-12-07	0.25	0	0	0	-	-	0	0
USGS Soils	Y	03-18-97	0.25	0	0	0	-	-	0	0
NPDES	Y	12-15-06	0.25	0	0	0	-	-	0	0
FINDS	Y	11-01-06	0.25	0	0	0	-	-	0	0
TRIS	Y	11-10-06	0.25	0	0	0	-	-	0	0
HMIRS	Y	04-16-07	0.50	0	0	0	0	-	0	0
NCDB	Y	09-22-06	0.25	0	0	0	-	-	0	0
PADS	Y	04-12-07	0.25	0	0	0	-	-	0	0
Nuclear Permits	Y	NA	0.50	0	0	0	0	-	0	0
Releases	Y	12-31-06	0.25	0	0	0	-	-	0	0
Federal Other	Y	05-21-07	0.25	0	0	0	-	-	0	0
State Permits	Y	NA	0.25	0	0	0	-	-	0	0
State Other	Y	01-01-07	0.25	0	0	0	-	-	0	0
- TOTALS -				3	0	1	0	0	0	4

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***Environmental FirstSearch
Site Information Report***

Request Date: 07-19-07
Requestor Name: (b) (6)
Standard: PARSONS

Search Type: AREA
0.02 sq mile(s)
Job Number: NANIULUPAU
Filtered Report

**Target Site: NANI ULUPAU MARINE CORPS FAMILY HOUSING
KANEOHE HI 96744**

Demographics

Sites: 4	Non-Geocoded: 0	Population: NA
Radon: -1 - 0.9 PCI/L		

Site Location

	<u>Degrees (Decimal)</u>	<u>Degrees (Min/Sec)</u>		<u>UTMs</u>
Longitude:	-157.739983	-157:44:24	Easting:	630559.698
Latitude:	21.456387	21:27:23	Northing:	2373044.206
			Zone:	4

Comment

Comment:

Additional Requests/Services

Adjacent ZIP Codes: 1 Mile(s)

Services:

ZIP					
Code	City Name	ST	Dist/Dir	Sel	
96734	KAILUA	HI	0.00 --	Y	

	Requested?	Date
Sanborns	No	
Aerial Photographs	No	
Historical Topos	No	
City Directories	No	
Title Search/Env Liens	No	
Municipal Reports	No	
Online Topos	No	

***Environmental FirstSearch
Sites Summary Report***

Target Property: NANI ULUPAU MARINE CORPS FAMILY HOUSING **JOB:** NANIULUPAU
Kaneohe HI 96744

TOTAL: 4 **GEOCODED:** 4 **NON GEOCODED:** 0 **SELECTED:** 4

Page No.	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
1	LANDUSE	MARINE CORPS DOD KANEOHE MARINE CO 45965	HI	0.00 --	1
2	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1456/M1RF1L	HI	0.00 --	2
2	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1440/M1OWL	HI	0.00 --	3
3	WETLANDS	NATIONAL WETLANDS INVENTORY NWI-HI-1437/M1RF1L	HI	0.21 SW	4

***Environmental FirstSearch
Site Detail Report***

Target Property: NANI ULUPAU MARINE CORPS FAMILY HOUSING **JOB:** NANIULUPAU
Kaneohe HI 96744

LANDUSE

SEARCH ID: 4	DIST/DIR: 0.00 --	MAP ID: 1
---------------------	--------------------------	------------------

NAME: MARINE CORPS DOD KANEOHE MARINE CORPS AIR STATION ADDRESS: HI CONTACT:	REV: 1/27/05 ID1: 45965 ID2: STATUS: PHONE:
---	--

FEDERAL LAND INFORMATION

NAME:	KANEOHE MARINE CORPS AIR STATION
FEATURE:	MARINE CORPS DOD
ADMINISTERING AGENCY:	DOD
STATE FIPS:	15
AREA:	0.001
PERIMETER:	0.162

Target Property: NANI ULUPAU MARINE CORPS FAMILY HOUSING **JOB:** NANIULUPAU
Kaneohe HI 96744

WETLANDS			
SEARCH ID:	2	DIST/DIR:	0.00 --
		MAP ID:	3
NAME:	NATIONAL WETLANDS INVENTORY	REV:	2/27/02
ADDRESS:	HI	ID1:	NWI-HI-1440
		ID2:	
CONTACT:		STATUS:	M1OWL
		PHONE:	
<u>SITE INFORMATION</u>			
AREA:	135440235.87		
PERIMETER:	69443.55		
WETC:	2		
WETC_ID:	3		
ATTRIBUTE:	M1OWL		

***Environmental FirstSearch
Site Detail Report***

Target Property: NANI ULUPAU MARINE CORPS FAMILY HOUSING **JOB:** NANIULUPAU
Kaneohe HI 96744

WETLANDS

SEARCH ID: 1	DIST/DIR: 0.21 SW	MAP ID: 4
---------------------	--------------------------	------------------

NAME: NATIONAL WETLANDS INVENTORY	REV: 2/27/02
ADDRESS: HI	ID1: NWI-HI-1437
	ID2:
CONTACT:	STATUS: M1RFIL
	PHONE:

SITE INFORMATION

AREA:	8287.78
PERIMETER:	494.226
WETC:	10
WETC_ID:	9
ATTRIBUTE:	M1RFIL

Environmental FirstSearch Descriptions

NPL: EPA NATIONAL PRIORITY LIST - The National Priorities List is a list of the worst hazardous waste sites that have been identified by Superfund. Sites are only put on the list after they have been scored using the Hazard Ranking System (HRS), and have been subjected to public comment. Any site on the NPL is eligible for cleanup using Superfund Trust money.

A Superfund site is any land in the United States that has been contaminated by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

FINAL - Currently on the Final NPL

PROPOSED - Proposed for NPL

NPL DELISTED: EPA NATIONAL PRIORITY LIST Subset - Database of delisted NPL sites. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

DELISTED - Deleted from the Final NPL

CERCLIS: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM (CERCLIS)- CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL.

PART OF NPL- Site is part of NPL site

DELETED - Deleted from the Final NPL

FINAL - Currently on the Final NPL

NOT PROPOSED - Not on the NPL

NOT VALID - Not Valid Site or Incident

PROPOSED - Proposed for NPL

REMOVED - Removed from Proposed NPL

SCAN PLAN - Pre-proposal Site

WITHDRAWN - Withdrawn

NFRAP: EPA COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY INFORMATION SYSTEM ARCHIVED SITES - database of Archive designated CERCLA sites that, to the best of EPA's knowledge, assessment has been completed and has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

NFRAP • No Further Remedial Action Plan

P - Site is part of NPL site

D - Deleted from the Final NPL

F - Currently on the Final NPL

N - Not on the NPL

O - Not Valid Site or Incident

P - Proposed for NPL

R - Removed from Proposed NPL

S - Pre-proposal Site

W • Withdrawn

RCRA COR ACT: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

RCRAInfo facilities that have reported violations and subject to corrective actions.

RCRA TSD: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM

TREATMENT, STORAGE, and DISPOSAL FACILITIES. - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities that treat, store, dispose, or incinerate hazardous waste.

RCRA GEN: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM GENERATORS - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. Facilities that generate or transport hazardous waste or meet other RCRA requirements.

LGN - Large Quantity Generators

SGN - Small Quantity Generators

VGN • Conditionally Exempt Generator.

Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List) facilities.

RCRA NLR: EPA RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM SITES - Database of hazardous waste information contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984.

Facilities not currently classified by the EPA but are still included in the RCRAInfo database. Reasons for non classification:

Failure to report in a timely matter.

No longer in business.

No longer in business at the listed address.

No longer generating hazardous waste materials in quantities which require reporting.

Federal IC / EC: EPA BROWNFIELD MANAGEMENT SYSTEM (BMS) - database designed to assist EPA in collecting, tracking, and updating information, as well as reporting on the major activities and accomplishments of the various Brownfield grant Programs.

FEDERAL ENGINEERING AND INSTITUTIONAL CONTROLS- Superfund sites that have either an engineering or an institutional control. The data includes the control and the media contaminated.

ERNS: EPA/NRC EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) - Database of incidents reported to the National Response Center. These incidents include chemical spills, accidents involving chemicals (such as fires or explosions), oil spills, transportation accidents that involve oil or chemicals, releases of radioactive materials, sightings of oil sheens on bodies of water, terrorist incidents involving chemicals, incidents where illegally dumped chemicals have been found, and drills intended to prepare responders to handle these kinds of incidents. Data since January 2001 has been received from the National Response System database as the EPA no longer maintains this data.

Tribal Lands: DOI/BIA INDIAN LANDS OF THE UNITED STATES - Database of areas with boundaries established by treaty, statute, and (or) executive or court order, recognized by the Federal Government as territory in which American Indian tribes have primary governmental authority. The Indian Lands of the United States map layer shows areas of 640 acres or more, administered by the Bureau of Indian Affairs. Included are Federally-administered lands within a reservation which may or may not be considered part of the reservation.

State/Tribal IC: HI DOH INSTITUTIONAL CONTROLS LISTING-The Hawaii Department of Health's Office of Hazard Evaluation and Emergency Response (HEER) inventory of sites with institutional controls.

State/Tribal VCP: HI DOH VOLUNTARY RESPONSE PROGRAM LISTING-The Hawaii Department of Health's Office of Hazard Evaluation and Emergency Response (HEER) inventory of sites participating in the

state's Voluntary Response Program.

State/Tribal Sites: *HI DOH* STATE RESPONSE LISTING-The Hawaii Department of Health's Office of Hazard Evaluation and Emergency Response (HEER) inventory of facilities, sites, or areas in which HEER has an interest, has investigated, or may investigate under HRS 128D (includes CERCLIS sites).

State/Tribal Brownfields: *HI DOH* STATE BROWNFIELDS LISTING-The Hawaii Department of Health's Office of Hazard Evaluation and Emergency Response (HEER) inventory of brownfields sites.

State/Tribal LUST: *HI DOH* LEAKING UNDERGROUND STORAGE TANKS-The Hawaii Department of Health's inventory of sites with leaking underground storage tanks.

State/Tribal UST/AST: *HI DOH* UNDERGROUND STORAGE TANKS- The Hawaii Department of Health's inventory of underground storage tanks.

State ACEC: *USFWS* US FISH AND WILDLIFE CONTACT INFORMATION - database of contact information for the US Fish and Wildlife Service loaded by zipcode.

Wetlands: *US FWS* NATIONAL WETLANDS INVENTORY (NWI) - database of information on the characteristics, extent, and status of the Nation's wetlands and deepwater habitats. This data is available for select areas of the United States.

Floodplains: *FEMA* FLOODPLAINS • database of 100 year and 500 year flood zone boundaries for select counties in the United States

Receptors: *US DOC* SENSITIVE RECEPTORS - 2005 Census Bureau's TIGER (Topologically Integrated Geographic Encoding and Referencing System) database of schools and hospitals. List of schools and hospitals that may house individuals deemed sensitive to environmental discharges due to their fragile immune systems.

Historic Landmarks: *NPS* NATIONAL REGISTRY OF HISTORIC PLACES DATABASE - The nation's official list of cultural resources worthy of preservation. Properties listed include districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture.

Federal Land Use: *USGS/EPA/FWS* FEDERAL LANDS OF THE UNITED STATES - Database of lands owned or administered by the Federal Government, including the Bureau of Land Management, the Bureau of Reclamation, the U.S. Department of Agriculture Forest Service, the Department of Defense, the U.S. Fish and Wildlife Service, the National Park Service, the Tennessee Valley Authority, and other agencies. Only areas of 640 acres or more are included. Descriptive information includes the name and type of the Federal land and the administering agency.

ENDANGERED SPECIES PROTECTION PROGRAM DATABASE • List of the Endangered Species by county and the species status./n NATIONAL WILDLIFE REGUGE DATA - database of boundaries for National Wildlife Refuges, National Fish Hatcheries, and USFWS administrative sites. Contains information regarding refuge name and contact information.

Federal Wells: *USGS* UNITED STATES GROUND-WATER SITES INVENTORY - Database of more than 850,000 records of wells, springs, test holes, tunnels, drains, and excavations in the United States.

FAA/FTC Towers: *FAA/FCC* Tower - database encompasses three sources of information from the Federal Aviation Administration and the Federal Communications Commission. FAA data includes the Digital Obstacle File which contains obstruction data for man made objects that affect domestic aeronautical charting products. FCC data includes the Wireless Telecommunication Bureau's Universal Licensing System which contains the Antenna Structure Database and the Cellular Tower Database. FCC data also includes the Mass Media Bureau's Consolidated Database System which includes engineering data for AM, FM, and Television broadcasting stations.

USGS Soils: *USGS/NRCS* NATIONAL SOILS DATABASE - Database comprised of the State Soil Geographic (STATSGO) data for the conterminous United States, Soil Survey Geographic (SSURGO) and Digital Data Series Bedrock data. These databases contain information regarding soil characteristics such as water capacity, percent clay, organic material, permeability, thickness of layers, hydrological characteristics, quality of drainage, surface, slope, liquid limit, and the annual frequency of flooding.

NPDES: *EPA* THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM - Database of permitted facilities receiving and discharging effluents to and from a natural source where treatment of the effluent is monitored.

FINDS: *EPA* FACILITY INDEX SYSTEM(FINDS)/FACILITY REGISTRY SYSTEM(FRS) - The index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility. A Facility Registry System site has an FRS in the status field.

TRIS: *EPA* TOXIC RELEASE INVENTORY SYSTEM (TRIS)• Database that contains information on toxic chemical releases and other waste management activities reported annually by certain covered industry groups as well as federal facilities. This inventory was established under the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) and expanded by the Pollution Prevention Act of 1990.

HMIRS: *US DOT* HAZARDOUS MATERIALS INCIDENT RESPONSE SYSTEM - Database of information regarding materials, packaging, and a description of events for tracked incidents.

NCDB: *EPA* NATIONAL COMPLIANCE DATA BASE SYSTEM - Database of regional compliance and enforcement activity and manages the Pesticides and Toxic Substances Compliance and Enforcement program at a national level. The system tracks all compliance monitoring and enforcement activities from the time an inspector conducts an inspection until the time the inspector closes or the case settles the enforcement action. NCDB is the national repository of the 10 regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS is transferred to NCDB to support the need for monitoring national performance of regional programs.

PADS: *EPA* DATABASE OF PCB HANDLERS - Database of PolyChlorinatedBiPhenol generators, transporters, storers and/or disposers that are required to register with the EPA. This database indicates the type of handler and registration number. Also included is the PCB Transformer Registration Database.

RADON: *NTIS* NATIONAL RADON DATABASE - EPA radon data from 1990-1991 national radon project collected for a variety of zip codes across the United States.

Nuclear Permits: *EPA/NRC* PERMITTED NUCLEAR FACILITIES - This database is a comprehensive listing of all facilities which have been issued permits for the handling of radioactive materials, in addition it also contains a complete listing of all licensed and active nuclear power plants located within the United States. THE RADINFO DATABASE - Database of basic information about facilities that are permitted and regulated for their use and handling of radioactive materials.

Federal Other: *EPA* SECTION SEVEN TRACKING SYSTEM (SSTS) • database of registration and production data for facilities which manufacture pesticides.

State Other: *US DOJ* NATIONAL CLANDESTINE LABORATORY REGISTER - Database of addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the U.S. Department of Justice ("the Department"), and the Department has not verified the entry and does not guarantee its accuracy. All sites that are included in this data set will have an id that starts with NCLR.

Environmental FirstSearch Database Sources

NPL: EPA Environmental Protection Agency

Updated quarterly

NPL DELISTED: EPA Environmental Protection Agency

Updated quarterly

CERCLIS: EPA Environmental Protection Agency

Updated quarterly

NFRAP: EPA Environmental Protection Agency.

Updated quarterly

RCRA COR ACT: EPA Environmental Protection Agency.

Updated quarterly

RCRA TSD: EPA Environmental Protection Agency.

Updated quarterly

RCRA GEN: EPA Environmental Protection Agency.

Updated quarterly

RCRA NLR: EPA Environmental Protection Agency

Updated quarterly

Federal IC / EC: EPA Environmental Protection Agency

Updated quarterly

ERNS: EPA/NRC Environmental Protection Agency

Updated semi-annually

Tribal Lands: DOI/BIA United States Department of the Interior

Updated annually

State/Tribal IC: HI DOH Office of Hazard Evaluation and Emergency Response, Hawaii State Department

of Health

Updated biannually

State/Tribal VCP: *HI DOH* Office of Hazard Evaluation and Emergency Response, Hawaii State Department of Health

Updated biannually

State/Tribal Sites: *HI DOH* Office of Hazard Evaluation and Emergency Response, Hawaii State Department of Health

Updated biannually

State/Tribal Brownfields: *HI DOH* Office of Hazard Evaluation and Emergency Response, Hawaii State Department of Health

Updated biannually

State/Tribal LUST: *HI DOH* The Hawaii Department of Health, Solid and Hazardous Waste Branch

Updated biannually

State/Tribal UST/AST: *HI DOH* The Hawaii Department of Health, Solid and Hazardous Waste Branch

Updated biannually

State ACEC: *USFWS* United States Fish and Wildlife Services

Updated semi-annually

Wetlands: *US FWS* U.S. Fish and Wildlife Service

Updated when available

Floodplains: *FEMA* Federal Emergency Management Agency

Updated when available

Receptors: *US DOC* US Department of Commerce, Census Bureau

Updated periodically

Historic Landmarks: *NPS* National Park Service

Updated annually

Federal Land Use: *USGS/EPA/FWS* U.S. Geological Survey
Environmental Protection Agency

Updated annually

Federal Wells: *USGS* United States Geographical Survey.

Updated annually

FAA/FTC Towers: *FAA/FCC* Federal Aviation Administration

Updated

USGS Soils: *USGS/NRCS* United States Geographical Survey

Updated annually

NPDES: *EPA* Environmental Protection Agency

Updated quarterly

FINDS: *EPA* Environmental Protection Agency

Updated annually

TRIS: *EPA* Environmental Protection Agency.

Updated quarterly

HMIRS: *US DOT* US Department of Transportation

Updated quarterly

NCDB: *EPA* Environmental Protection Agency

Updated quarterly

PADS: *EPA* Environmental Protection Agency

Updated quarterly

RADON: *NTIS* Environmental Protection Agency, National Technical Information Services

Updated periodically

Nuclear Permits: *EPA/NRC* Nuclear Regulatory Commission

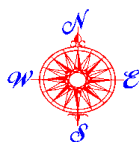
Updated periodically

Federal Other: *EPA* Environmental Protection Agency

Updated quarterly

State Other: *US DOJ* U.S. Department of Justice

Updated when available

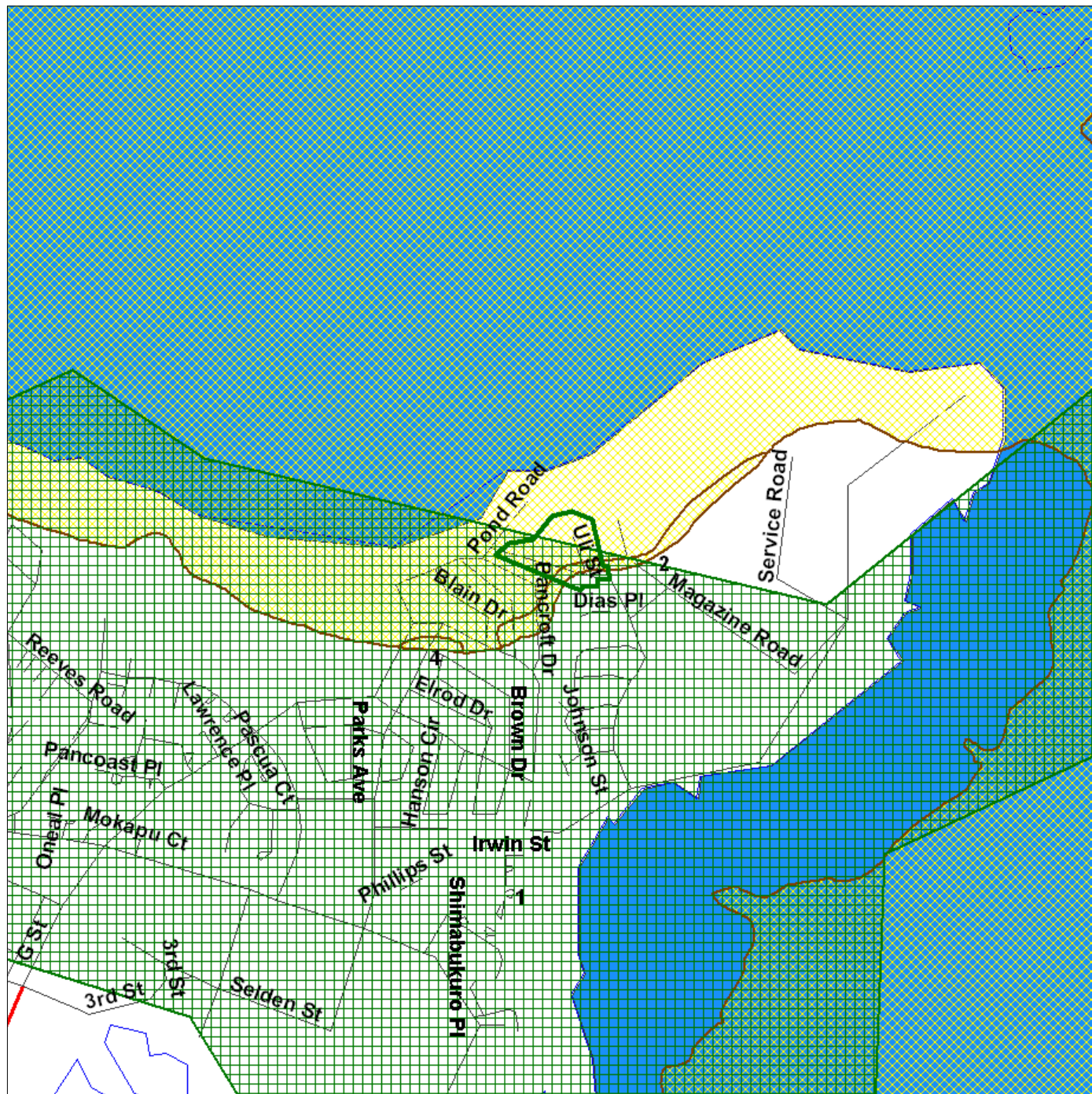


Environmental FirstSearch

1 Mile Radius from Area
Single Map:



NANI ULUPAU

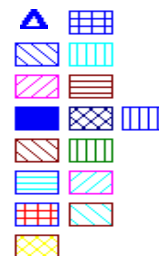


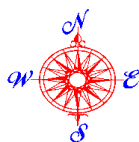
Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
Triballand.....
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, Zone II, Zone A, Interim Wellhead Protection Areas
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands





Environmental FirstSearch

1 Mile Radius from Area
PARSONS: NPL, RCRACOR, STATE



NANI ULUPAU

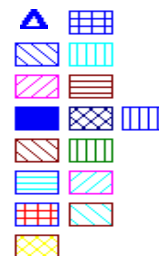


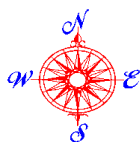
Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
Triballand.....
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, Zone II, Zone A, Interim Wellhead Protection Areas
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands



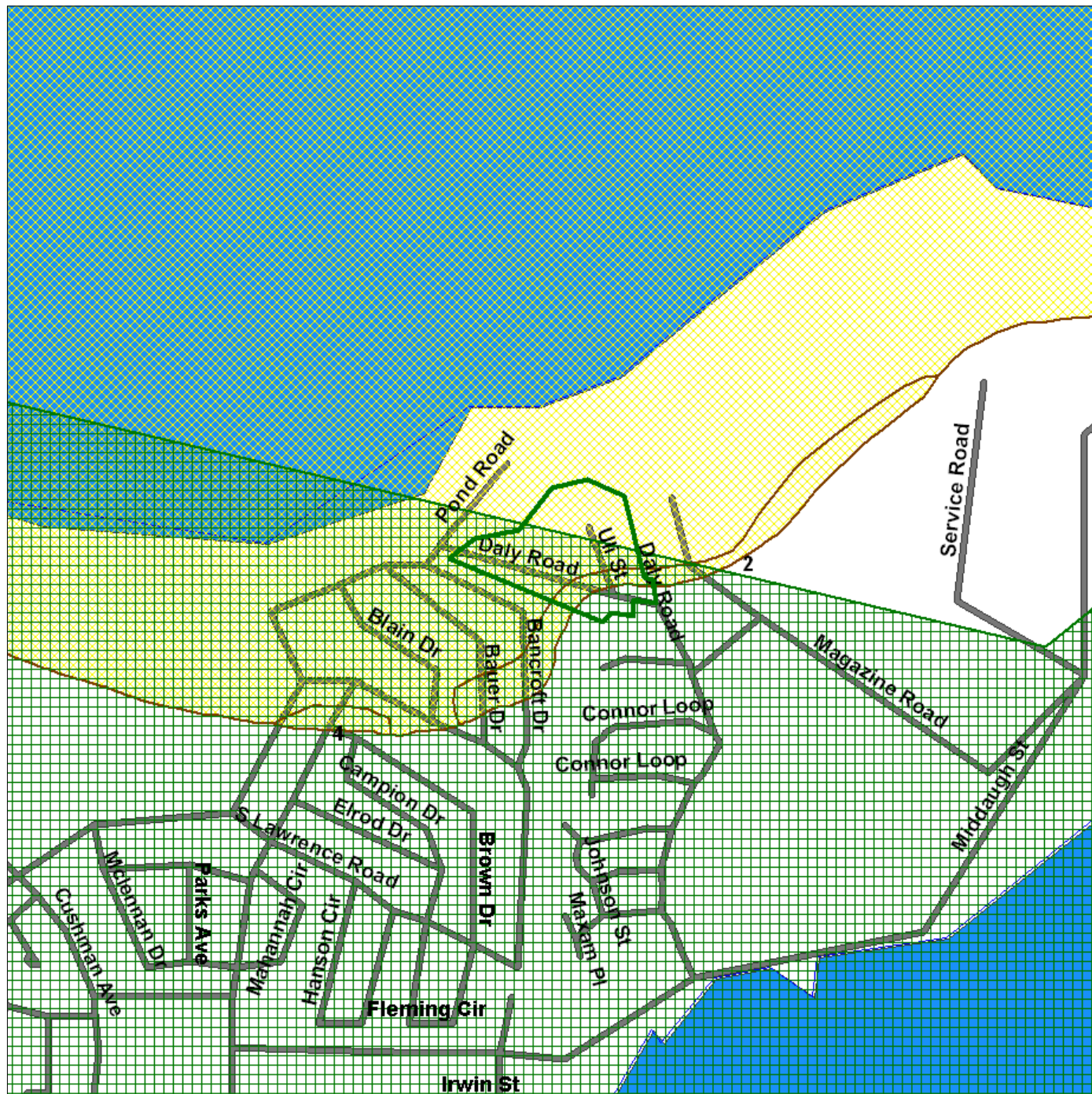


Environmental FirstSearch

.5 Mile Radius from Area
PARSONS: Multiple Databases



NANI ULUPAU

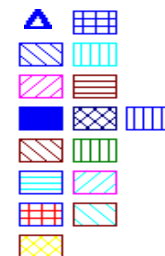


Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
Triballand.....
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, Zone II, Zone A, Interim Wellhead Protection Areas
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands





Environmental FirstSearch
.25 Mile Radius from Area
PARSONS: Multiple Databases



NANI ULUPAU

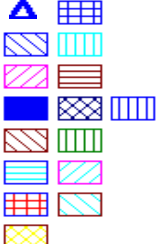


Source: U.S. Census TIGER Files

- Area Polygon
- Identified Site, Multiple Sites, Receptor
- NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
- Triballand
- National Historic Sites and Landmark Sites
- Soil Sites
- Railroads



- Public Water Supply, Zone II, Zone A, Interim Wellhead Protection Areas
- Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
- Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)
- Water Bodies, Sole Source Aquifer
- Area of Critical Environmental Concern (ACEC), Protected Open Spaces
- Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
- Floodplains: 100 Year, 500 Year
- Wetlands





Environmental FirstSearch

.12 Mile Radius from Area
PARSONS: SPILLS90, ERNS, RCRANLR



NANI ULUPAU



Source: U.S. Census TIGER Files

Area Polygon
Identified Site, Multiple Sites, Receptor
NPL, DELNPL, Brownfield, Solid Waste Landfill (SWL), Hazardous Waste
Triballand.....
National Historic Sites and Landmark Sites
Soil Sites
Railroads



Public Water Supply, Zone II, Zone A, Interim Wellhead Protection Areas
Potentially Productive Aquifers: High Yield (GAA), Medium Yield (GA)
Non-Potential Drinking Source: High Yield (GB), Medium Yield (GC)...
Water Bodies, Sole Source Aquifer
Area of Critical Environmental Concern (ACEC), Protected Open Spaces
Estimated Habitats of Rare Wetlands Wildlife, Vernal Pool
Floodplains: 100 Year, 500 Year
Wetlands

